

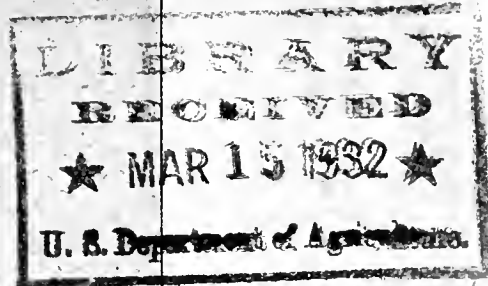
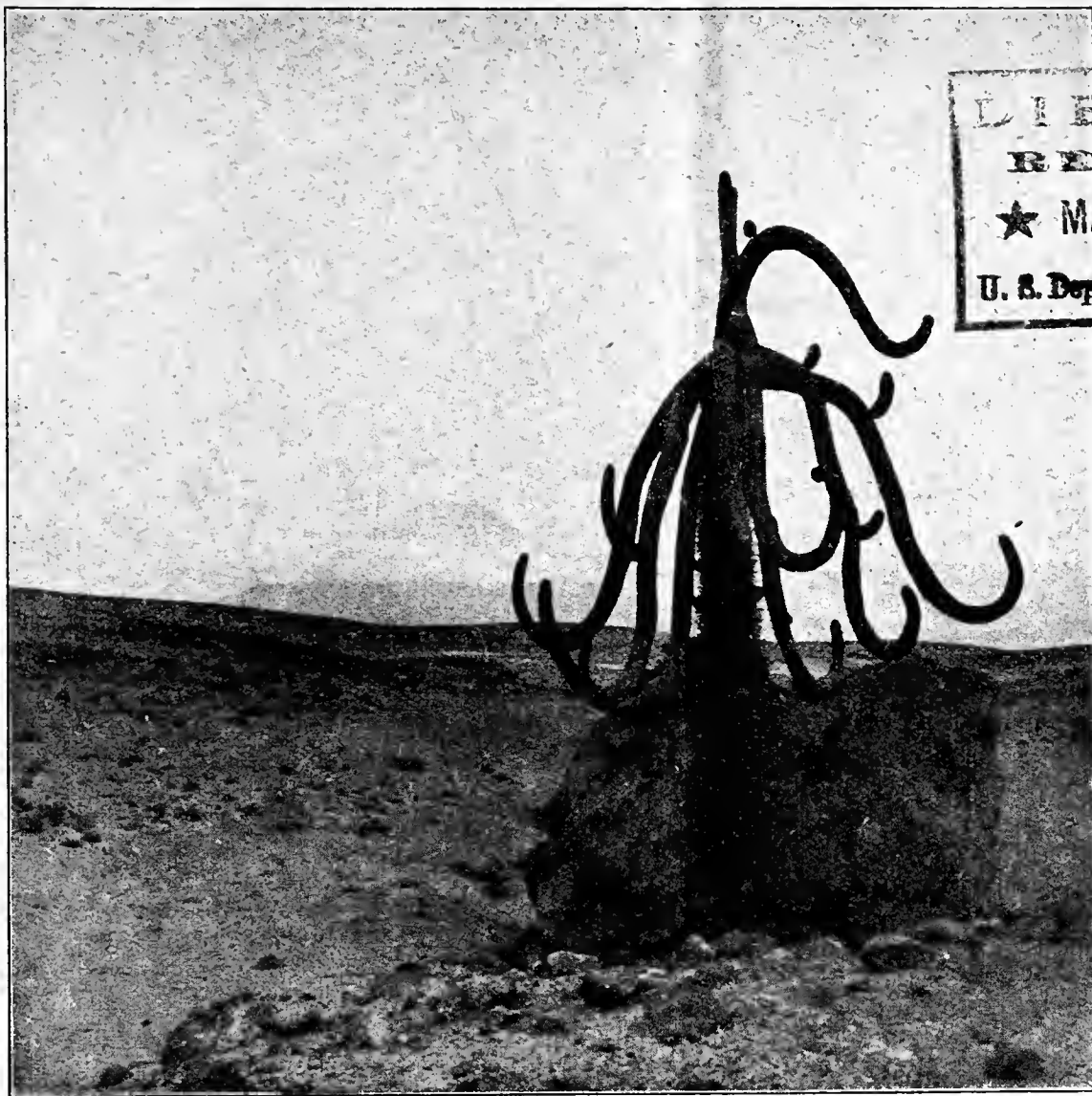
## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



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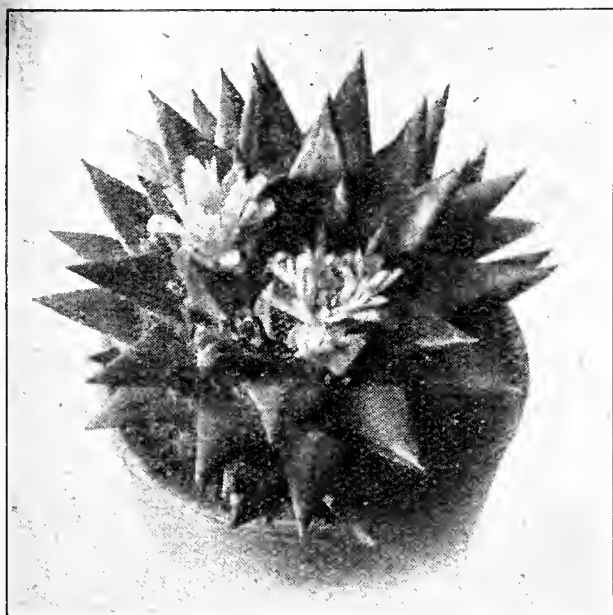
**Cereus  
candelaris,  
Peru**

Due to the strict regulations governing the importation of plants, more and more cactus enthusiasts are growing their plants from seeds. By so doing they have found that it is possible to greatly increase their collection, both as to variety and numbers, at a minimum of expense. It is believed that there are seeds now listed in this catalog which have not as yet been grown in the U. S. This offers an opportunity to require many rare and little known varieties. The care and time of cultivation is amply repaid by the pleasure of possessing. To raise plants is not difficult, if the seeds have been carefully selected. The seeds offered are fresh and are true as to name. The following unsolicited letter may be of interest: My dear Mr. Tobusch: I thank you very much for the very beautiful seeds which have all germinated within a week, with the exception of *Aztekium ritteri* which was perhaps my fault. I cannot understand why everyone can't have beautiful cacti, when such fresh, healthy seed as yours is to be had so reasonably . . . . .

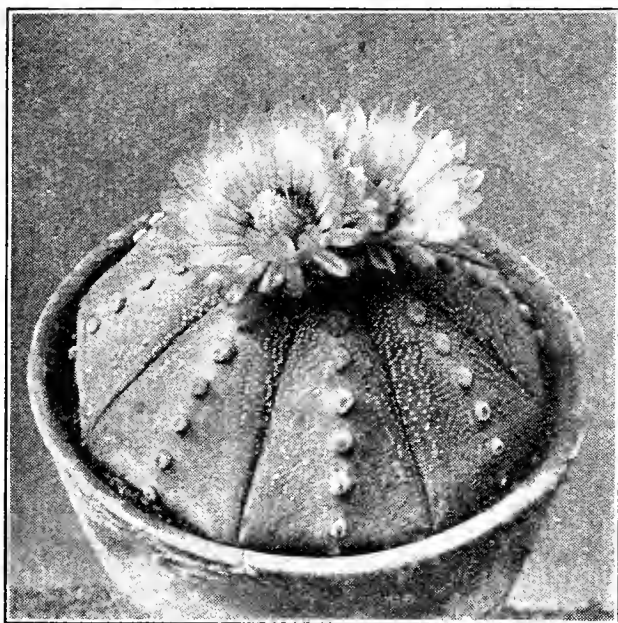
Very sincerely yours  
Arthur D. Houghton, M. D.

**Herman Tobusch**  
632 So. Wisconsin Ave - Villa Park  
**ILLINOIS**

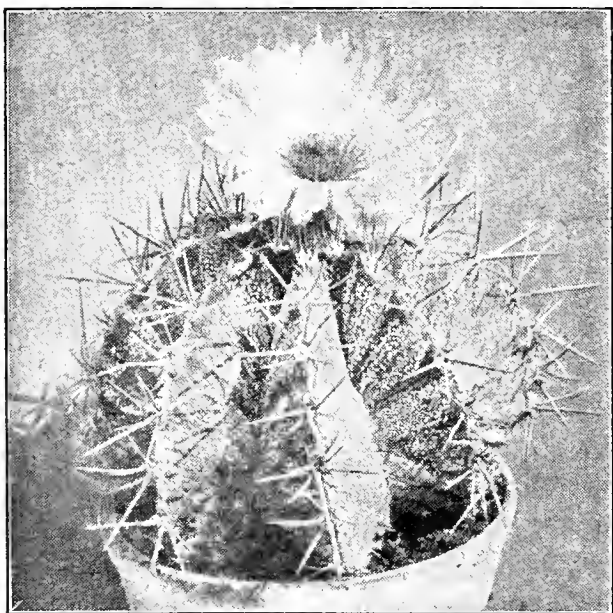
Telephone 3932



**Ariocarpus trigonus**  
seeds Nr. 5b



**Astrophytum asterias**  
seeds Nr. 10



**Astrophytum ornatum**  
seeds Nr. 12a

Nr.	Rarities	25 s.	50 s.	250 s.	500 s.
		\$	\$	\$	\$
1	Ariocarpus fissuratus . . .	.15	— .25	1.20	2.25
1a	„ Kotschubeyanus . . .	.10	— .20	— .95	1.80
5a	„ strobiliformis . . .	.15	— .25	1.20	2.25
5b	„ trigonus . . .	.15	— .30	1.45	2.70
6	<b>Anhalonium Williamsii</b>	— .20	— .40	1.90	3.60
6f	Aztekiun Ritteri (not for beginners) . . .	.10	— .20	— .95	1.80
7	<b>Cephalocereus senilis</b>	— .10	— .20	— .95	1.80
8	„ Palmeri . . .	.15	— .30	1.40	2.40
8a	„ Royenii, very rare . . .	.50	— .90	—	—
9	<b>Pilocereus erythrocephalus</b> , red spined . . .	.15	— .30	1.40	2.40
10	<b>Astrophytum asterias</b> , one of the most peculiar of cacti, grows very well	— .45	— .80	3.60	6.40
10c	Astr. capricorne × asterias	— .60	1.—	4.50	8.—
10d	„ capr senile × as- terias . . .	.60	1.—	4.50	—
10e	„ capric. minor × asterias . . .	.45	— .80	3.60	6.40
10g	„ myriost. coahuil. × asterias . . .	.45	— .80	3.60	6.40
10h	„ asterias × myriost. coahuil. . .	.45	— .80	3.60	6.40
10k	„ myriost. pot. × or- natum . . .	.60	1.—	4.50	8.—

*These hybrids are the result of carefully crossing of specially selected plants, and it is interesting to observe the inherited characteristics as they grow.*

11	<b>Astrophytum asterias</b> hybrid . . .	.50	— .90	—	—
11b	„ capricorne . . .	.45	— .80	3.60	6.40
11c	„ capricorne minor . . .	.50	— .90	4.10	7.20
11d	„ capricorne senile . . .	.45	— .80	3.60	6.40
11e	„ capricorne aureum . . .	.60	1.—	—	—
11f	„ capricorne crassispin- num . . .	.60	1.—	4.50	8.—
12	„ myriostigma „ Bishops cap“ . . .	.35	— .60	2.70	4.80
12a	„ <b>ornatum</b> , the nicest of all . . .	.50	— .90	4.10	7.20
12c	„ myriostigma, 4ribbed . . .	.45	— .80	3.60	6.40
12d	„ myriost. subsp. coa- huilensis . . .	.80	1.50	—	—
12h	„ mixed . . .	.35	— .65	2.90	5.20
13	<b>Obregonia Denegrii</b> . . .	.25	— .50	2.25	4.—
13a	<b>Haagea Schwartzii</b> . . .	.25	.50	—	—
13b	<b>Leuchtenbergia principis</b>	.30	— .60	—	—
13d	<b>Melocactus caesius</b> . . .	.25	— .50	—	—
13f	„ <b>Townsendianus</b> . . .	.20	— .35	1.60	2.80
13g	„ amoenus . . .	.20	— .40	1.80	3.20
13i	„ intortus, rare . . .	.30	— .60	2.70	4.80
13l	„ unguispinus, new . . .	.30	— .60	2.70	4.80
13o	<b>Neoraimondia macrosti-</b> <b>bas</b> . . .	.35	— .60	—	—
13s	<b>Microspermia rigidispina</b>	.40	— .80	—	—
13p	<b>Neoraimondia gigantea</b> heavy spined . . .	.45	— .80	—	—
14a	<b>Pelecyphora pectinata</b> . . .	.25	— .50	—	—
14g	<b>Rhipsalis lumbricoides</b> . . .	.45	— .80	—	—

Nr.	Cereus	50 s. \$	250 s. \$	500 s. \$	5000 s. \$
15d	<b>aureispinus</b> , yellow spines . . . . .	— .25	1.20	2.—	17.50
15f	<b>acanthurus</b> (Borzicactus) free flowering . . . . .	— .35	1.60	2.80	24.50
15g	<b>azureus</b> , with black spines . . . . .	— .20	— .90	1.60	14.—
15h	<b>bavosus</b> , quick growing . . . . .	— .30	1.40	2.40	21.—
15j	<b>Baumannii</b> , like <b>Straussii</b> , close yellow spined . . . . .	— .25	1.20	2.—	17.50
15k	<b>brachypetalus</b> (Corryoc.) red spined . . . . .	— .25	1.20	2.—	17.50
15m	<b>brevistylus</b> (Corryoc.) . . . . .	— .35	1.60	2.80	24.50
15p	<b>boliviensis</b> . . . . .	— .30	1.40	2.40	21.—
16a	<b>candicans</b> , large white flowers . . . . .	— .25	1.20	2.—	17.50
16b	<b>Bridgesii</b> , blue, easy growing . . . . .	— .20	— .90	1.60	14.—
16d	<b>candelaris</b> , (Browningia) forms slender candelabrum, flowers orangered . . . . .	— .30	1.40	2.40	21.—
16e	<b>candelabrum</b> , from Mexico . . . . .	— .25	1.20	2.—	17.50
16f	<b>cartwrightianus</b> , large seeds, quick growing . . . . .	— .50	2.25	4.—	— .—
17	<b>chiloensis</b> . . . . .	— .50	2.25	4.—	35.—
17f	<b>chosiquensis</b> (Binghamia) This wonderful plant can be likened to a gold-yellow <b>Straussii</b> . . . . .	— .65	2.90	5.20	45.—
18	<b>coerulescens</b> , blue . . . . .	— .30	1.40	2.40	21.—
19	<b>Chiotilla</b> . . . . .	— .25	1.20	2.—	17.50
19a	<b>columna Trajani</b> . . . . .	— .50	2.25	4.—	35.—
20	<b>Coryne</b> , striking appearance . . . . .	— .20	— .90	1.60	14.—
20b	<b>cuzcoensis</b> , <b>Trichocereus</b> the rarest from Interiar of Peru . . . . .	— .30	1.40	2.40	— .—
21	<b>Dumortieri</b> . . . . .	— .30	1.40	2.40	21.—
21d	<b>del Moralii</b> , easy growing . . . . .	— .25	1.20	2.—	17.50
21e	<b>decumbens</b> (Borzicactus) . . . . .	— .60	— .—	— .—	— .—
21f	<b>deficiens</b> (Venezuela) . . . . .	— .50	2.25	4.—	— .—
22	<b>eburneus</b> . . . . .	— .40	1.80	3.20	28.—
24	<b>Emoryi</b> ( <b>Bergerocactus</b> ) . . . . .	— .70	— .—	— .—	— .—
25a	<b>fascicularis</b> , very fine . . . . .	— .30	— .—	— .—	— .—
26	<b>Forbesii</b> , good for beginner . . . . .	— .25	1.20	2.—	17.50
27	<b>Funkianus</b> (Chile) . . . . .	— .45	2.—	3.60	31.50
29	<b>geometrizzans</b> , seedlings wonderful blue . . . . .	— .15	— .70	1.20	10.50
36	<b>jungo</b> , interesting . . . . .	— .50	2.25	4.—	35.—
42	<b>giganteus</b> (Carnegie) . . . . .	— .25	1.20	2.—	— .—
43	<b>grandiflorus</b> , „Queen of the night“ keep seedlings shaded, warm and moist . . . . .	— .40	1.80	3.20	28.—
44	<b>griseus</b> , beautifully frosted body . . . . .	— .50	2.25	4.—	— .—
44b	<b>Hassleri</b> (Paraguay) easy to grow . . . . .	— .50	2.25	4.—	— .—
45	<b>Hollianus</b> , good for the novice . . . . .	— .40	1.80	3.20	28.—
49	<b>Jamacaru</b> , easely grown . . . . .	— .30	1.40	2.40	21.—
51b	<b>Lauterbachii</b> . . . . .	— .40	1.80	3.20	28.—
51c	<b>laetus</b> . . . . .	— .20	— .90	1.60	14.—
51f	<b>litoralis</b> (Chile) rare . . . . .	— .40	1.80	3.20	— .—
54	<b>melanostele</b> , (Binghamia) fine . . . . .	— .60	2.70	4.80	— .—
55	<b>microspermus</b> , golden brown bristles . . . . .	— .60	2.70	4.80	— .—



Cereus candicans  
seeds Nr. 16 a

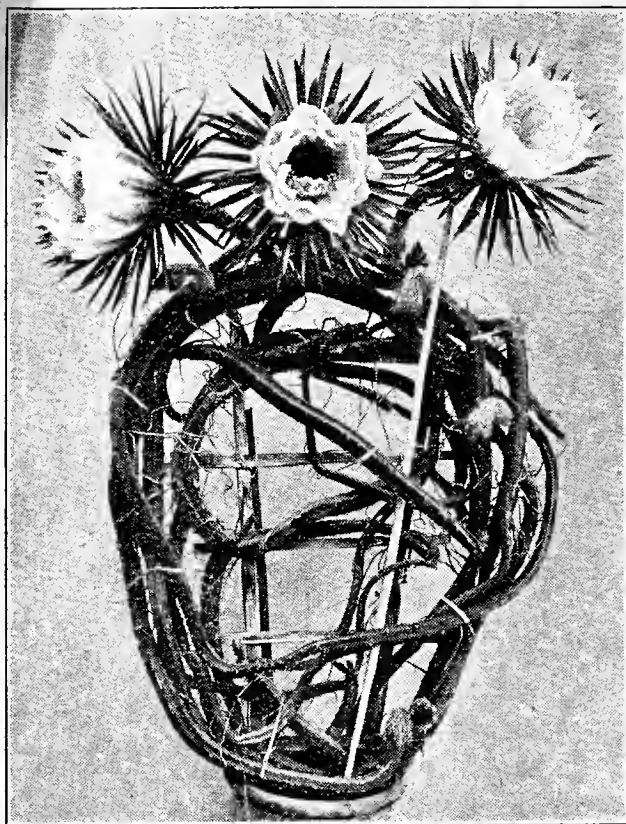
### I. Mexico-Kollektion:

20 different sorts, one packet each, about 800 seeds  
price \$ 1.—



Cereus Forbesii  
seeds Nr. 26

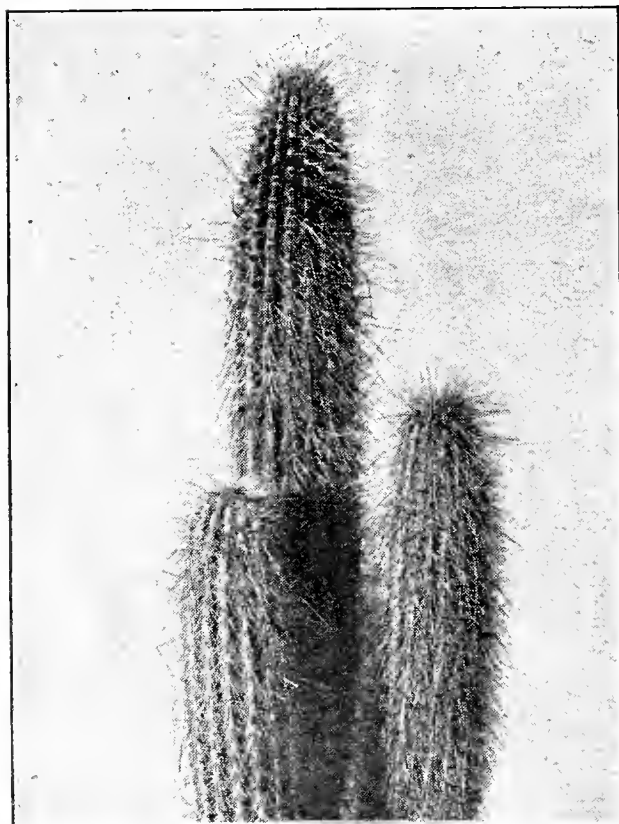




**Cereus grandiflorus**  
seeds Nr. 43

## II. Argentina-Kollektion:

12 different sorts, one packet each, about  
400 seeds price \$ 1.—



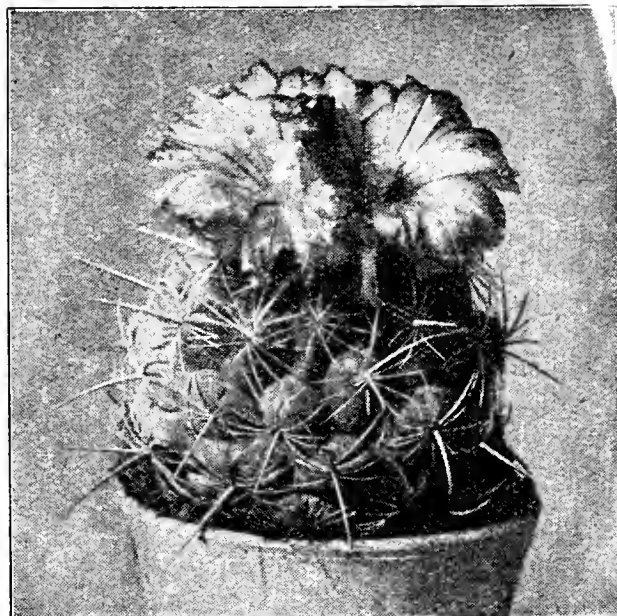
**Cereus Strausii**  
seeds Nr. 69

Nr.		50 s. \$	250 s. \$	500 s. \$	5000 s. \$
57b	nycticalus „Prinzess of the night“ . . . . .	—40	1.80	3.20	28.—
57d	Ocamponis . . . . .	—50	2.25	4.—	—.—
58	<b>Pasacana</b> , the bolivian „Old man“ . . . . .	—15	—70	1.20	10.50
59	paraguayensis, quick growing . . . . .	—25	1.20	2.—	17.50
60	pectenaboriginum, largest seeds, grows very quick . . . . .	—40	1.80	3.20	—.—
61	peruvianus . . . . .	—20	—90	1.60	14.—
61a	Pitahaya . . . . .	—30	1.40	2.40	21.—
61c	Pitahaya montruosus . . . . .	—60	—.—	—.—	—.—
61f	<b>phatnospermus</b> (Parag.) rare . . . . .	—40	1.80	3.20	28.—
62c	platinospinus, rare . . . . .	—90	—.—	—.—	—.—
63	pruinosis, frosted body . . . . .	—30	1.40	2.40	21.—
64a	Schottii, nice, good growing . . . . .	—40	1.80	3.20	28.—
64b	Seidellii, fine blue . . . . .	—60	2.70	4.80	—.—
65	<b>Spachianus</b> , good growing, best for grafting . . . . .	—30	1.40	2.40	21.—
65b	spinibarbis, very long spines . . . . .	—50	2.25	4.—	35.—
67	squarrosus (Erdisia) free flowering . . . . .	—50	2.25	4.—	35.—
68	Spegazzinii, a slender, branched plant, with a beautiful pattern on the epidermis . . . . .	—40	1.80	3.20	28.—
69	<b>Strausii</b> (Pilocereus) white columnar, much desired . . . . .	—20	—90	1.60	14.—
70	strigosus, similar to spachianus . . . . .	—40	1.80	3.20	28.—
75	<b>Terscheckii</b> . . . . .	—20	—90	1.60	14.—
78	<b>thelegonoides</b> . . . . .	—40	1.80	3.20	28.—
82c	usitatus, rare . . . . .	—50	—.—	—.—	—.—
84	Weingartii (Monvillea), white spined . . . . .	—70	—.—	—.—	—.—
84b	Weberbaueri (Meyenia) fine . . . . .	—30	—.—	—.—	—.—
85	Many kinds mixed . . . . .	—10	—40	—70	6.—

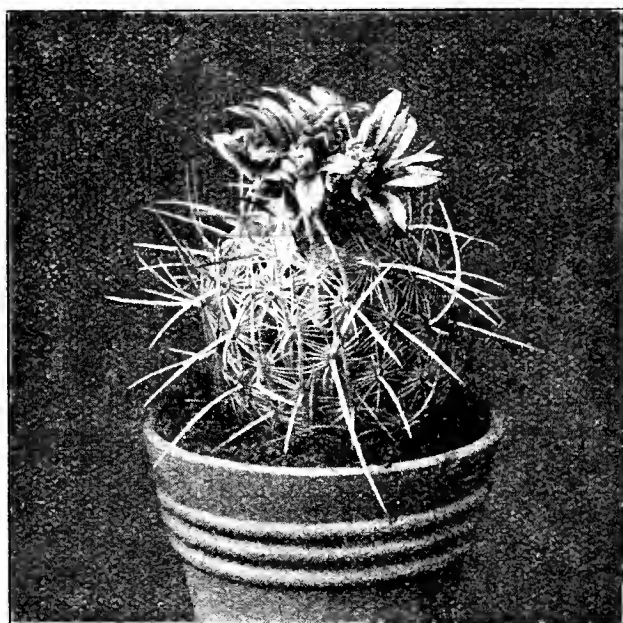
## Echinocactus

92	bicolor, many colored spines . . . . .	—30	1.40	2.40	21.—
93	bicolor bolansis, withe . . . . .	—40	—.—	—.—	—.—
94	bicolor tricolor . . . . .	—30	—.—	—.—	—.—
96	<b>Bodenbenderianus</b> . . . . .	—50	2.25	4.—	35.—
99	centeterius . . . . .	—40	1.80	3.20	—.—
99a	ceratistes (Chile) . . . . .	—45	2.—	3.60	31.50
102	<b>conotheos</b> , wonderful with long white spines, blossoms when 2 inch. in diameter . . . . .	—50	—.—	—.—	—.—
103	coptonogonus . . . . .	—40	1.80	3.20	28.—
104	corniger, broadflatspines . . . . .	—20	—90	1.60	14.—
105b	<b>chrysacanthion</b> , rare, golden yellow . . . . .	—60	2.70	4.80	42.—
108	crispatus, many ribbed . . . . .	—25	1.20	2.—	17.50
110	cupreatus, rare chilean kind . . . . .	—80	3.60	6.40	—.—
115	de Laetii, free flowering . . . . .	—30	1.40	2.40	21.—
117c	ebenacanthus . . . . .	—50	—.—	—.—	—.—
118	electracanthus . . . . .	—20	—90	1.60	14.—

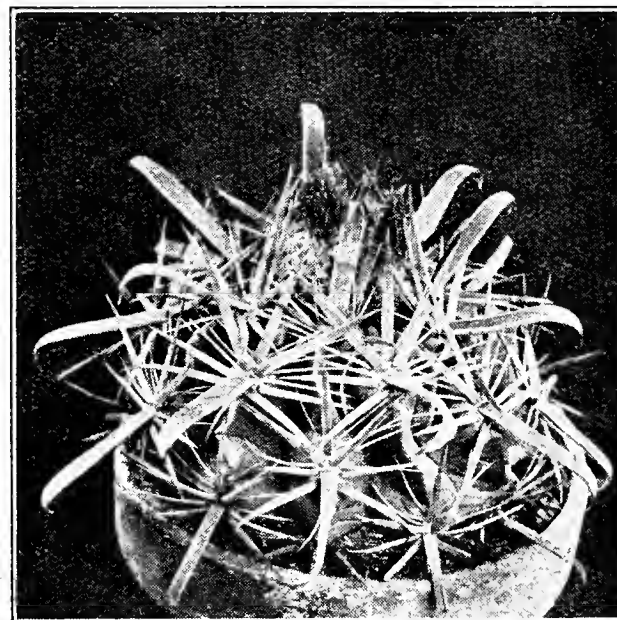
Nr.	<b>Echinocactus</b>	50 s.	250 s.	£00 s.	1000 s.
		\$	\$	\$	\$
119e	Emoryi . . . . .	.30	—	—	—
120a	Fiedlerianus, very rare	.80	—	—	—
123	gibbosus . . . . .	.50	—	—	—
127c	gladiatus . . . . .	.40	1.80	3.20	—
129	Grossei (Paraguay) . . .	.30	1.40	2.40	—
130	<b>Grusonii</b> , golden yellow spined, seedlings reddish color at first . . . . .	.30	1.40	2.40	21.—
131	Grässneri (Brasil) . . .	.80	—	—	—
133	Haselbergii (Brasil) . . .	.80	—	—	—
134	heterochromus . . . . .	.40	1.80	3.20	—
135	hexaedrophorus, many colored spines . . . . .	.30	1.40	2.40	21.—
137	Hossei, rare . . . . .	.50	2.25	4.—	35.—
139	islayanus (Peru), rare . .	.80	—	—	—
141	Johnsonii (Calif.) . . .	.30	—	—	—
142	ingens . . . . .	.15	.70	1.20	10.50
144a	Knebeli . . . . .	.30	1.40	2.40	21.—
144b	<b>Kurtzianus</b> , very nice	.50	2.25	4.—	35.—
144d	Knuthianus, named of count Knuth . . . . .	.30	1.40	2.40	—
145	<b>Korethroides</b> , a scarlet fl. novelty, early bloo- ming, possibly hardy in southern states . . . . .	.25	3.20	6.—	—
146	Le Contei, not recomen- ded for a novice . . . . .	.50	—	—	—
148	Lenninghausii . . . . .	.90	—	—	—
148a	<b>leptanthus</b> , blooms in 2. year . . . . .	.60	2.70	4.80	42.—
150	longihamatus . . . . .	.15	.70	1.20	10.50
150c	<b>loricatus</b> , fine . . . . .	.40	1.80	3.20	28.—
151	<b>Maassii</b> , green body, yellow spines flowers copper red . . . . .	.50	2.25	4.—	35.—
151c	megarhizus . . . . .	.30	1.40	2.40	—
153b	microspermus . . . . .	.30	1.40	2.40	21.—
153e	microspermus sanguini- flora . . . . .	.45	2.—	3.60	31.50
153f	minusculus, blossoms the second year . . . . .	.25	1.20	2.—	17.50
154	multicostatus . . . . .	.30	1.40	2.40	21.—
154b	<b>multiflorus</b> , a most beautiful echinocactus, rose colored fl. . . . .	.40	1.80	3.20	28.—
156	Mathssonii . . . . .	.30	1.40	2.40	21.—
158	<b>multiflorus v. hybo- pleura</b> , profusely fl easi- ly grown from seeds . . .	.35	1.60	2.80	24.50
159	nidulans . . . . .	.50	2.25	4.—	—
159b	<b>nivosus</b> (Microspermia) snow white spines, large flowers, good growing . .	.60	2.70	4.80	42.—
160	<b>nigricans</b> , black spines, flowers yellow with red . .	.50	2.25	4.—	35.—
160b	occultus, rare, from Chile	.60	2.70	4.80	—
161	Ottonis var. paraguayensis	.50	—	—	—
163	<b>pampeanus</b> . . . . .	.45	2.—	3.60	31.50
165	<b>peruvianus</b> , dark green wonderfully spined, rose flowers . . . . .	.25	1.20	2.—	17.50
167	pilosus, red spined . . .	.30	1.40	2.40	21.—
172	pulcherrimus (Frailea) . .	.35	1.60	2.80	—
173	Quehlianus . . . . .	.40	1.80	3.20	28.—
176	robustus . . . . .	.30	1.40	2.40	21.—



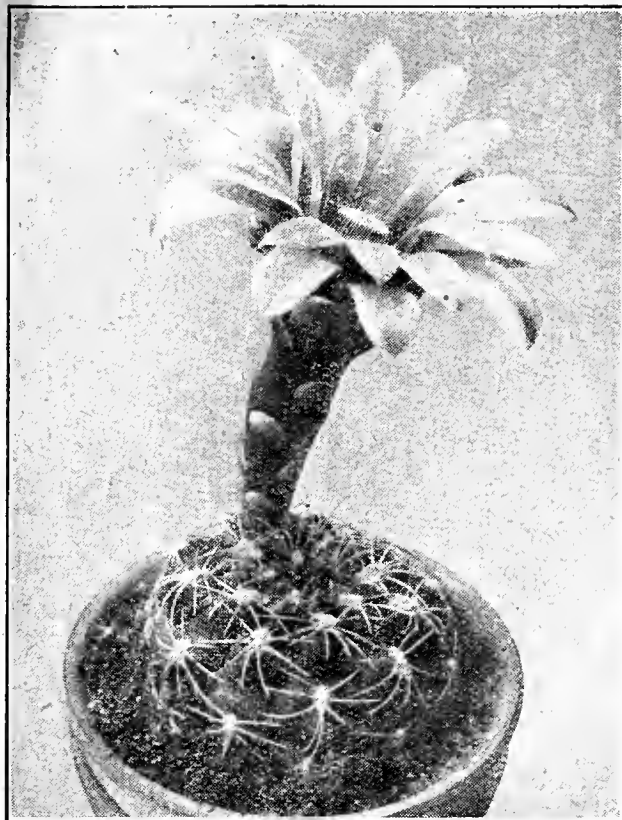
**Echinocactus bicolor**  
seeds Nr. 92



**Echinocactus conothelos**  
seeds Nr. 102



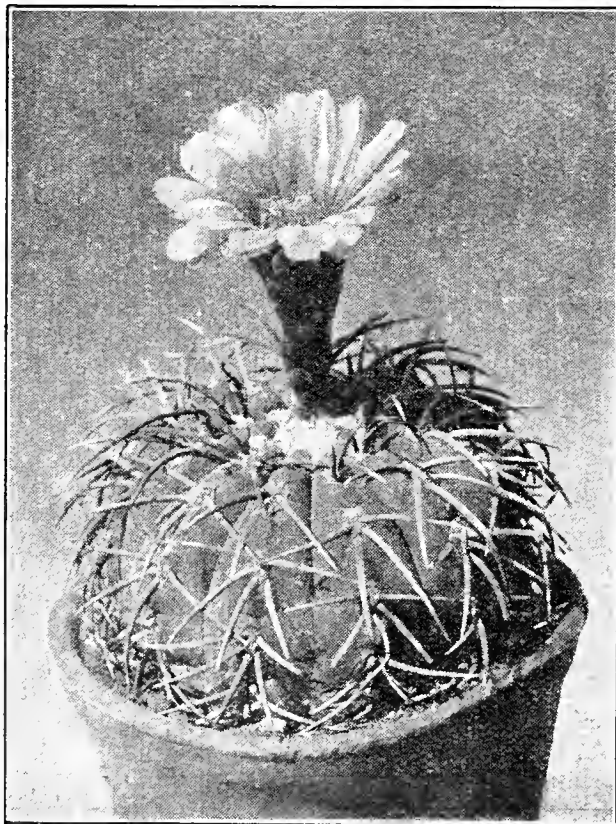
**Echinocactus corniger**  
seeds Nr. 104



**Echinocactus leptanthus**  
seeds Nr. 148 a

### III. Venezuela/Colombia- Kollektion:

6 different rare sorts one packet each  
price \$ 1.—



**Echinocactus loricatus**  
seeds Nr. 150 c

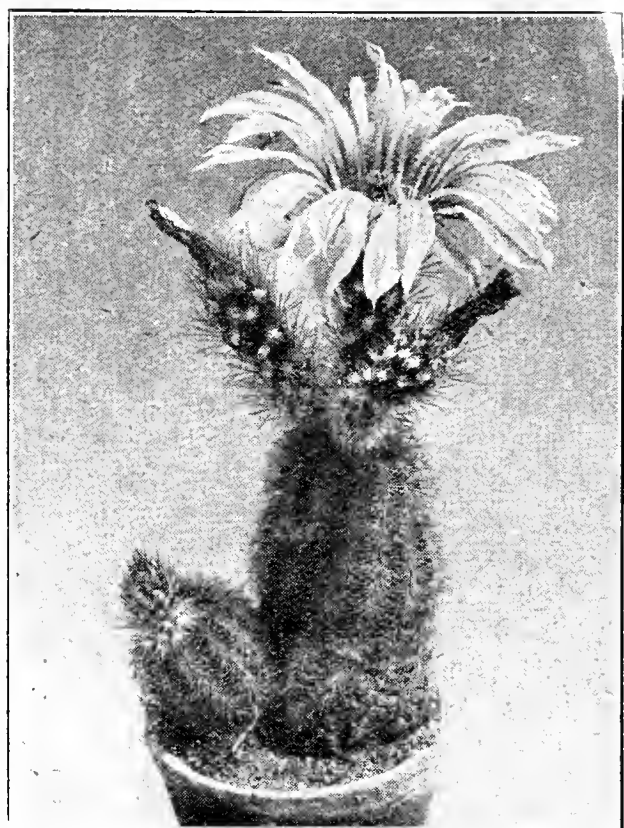
Nr.	<b>Echinocactus</b>	50 s. \$	250 s. \$	500 s. \$	5000s. \$
176a	<b>Saglionis</b> , velvet green body, splendid rose colored flowers . . . . .	—30	1.40	2.40	21.—
176b	<b>Sandillon</b> , valuable kind from Chile . . . . .	—40	1.80	3.20	28.—
176d	<b>Saussieri</b> . . . . .	—35	1.60	2.80	24.50
176e	<b>salmoneus</b> (Rebutia)new	1.—	3.80	7.—	49.—
178	<b>Schickendantzii</b> , free flowering, nice two colored spines . . . . .	—20	—90	1.60	14.—
178a	<b>Schilinzkyanus</b> , rare . . . . .	—60	—	—	—
178b	<b>Schumannianus</b> , golden brown spines . . . . .	—50	—	—	—
179	<b>scopa ruberrimus</b> , wonderful . . . . .	—40	1.80	3.20	28.—
179a	<b>Sellowii</b> . . . . .	—60	—	—	—
179b	<b>senilis</b> , Rariety with white bristles, another „Old man“ . . . . .	—75	3.40	6.—	52.50
180	<b>setispinus</b> , free flowering	—40	1.80	3.20	28.—
180b	<b>species nova</b> (Gymnoc.) dark red flowering, very fine . . . . .	—50	2.25	4.—	—
181a	<b>Smithii</b> , white . . . . .	—60	—	—	—
181c	<b>Sutterianus</b> , easily flowering . . . . .	—50	2.25	4.—	—
181e	<b>stellatus</b> . . . . .	—60	2.70	4.80	—
181f	<b>Stuckertii</b> , red fl. rare, very fine . . . . .	—50	2.25	4.—	—
181g	<b>Stümeri</b> , new, closely brown red spined, seeds available the first time	—40	1.80	3.20	28.—
182a	<b>tabularis</b> . . . . .	—50	—	—	—
185	<b>tulensis</b> , nice rose fl. . . . .	—50	2.25	4.—	—
186b	<b>Trollietii</b> . . . . .	—30	1.40	2.40	21.—
188c	<b>umadeave</b> (Friesia) hardy	—60	2.70	4.80	—
190	<b>Urselianus</b> . . . . .	—50	—	—	—
192	<b>viridescens</b> , fresh green, yellow spines . . . . .	—30	1.40	2.40	21.—
195	<b>Wislizenii</b> . . . . .	—20	—90	1.60	—
196	<b>Wipplei</b> . . . . .	—60	—	—	—
198	many kinds mixed . . . . .	—10	—40	—75	6.—

Nr.	<b>Echinocereus</b>	50 s. \$	250 s. \$	500 s. \$	5000s. \$
222	<b>ctenoides</b> , rare . . . . .	—60	—	—	—
223	<b>conoideus</b> . . . . .	—40	—	—	—
225	<b>de Laetii</b> . . . . .	—30	1.40	2.40	—
226	<b>Engelmannii</b> . . . . .	—50	—	—	—
228	<b>Fendleri</b> . . . . .	—40	—	—	—
229	<b>Fitschii</b> , wonderful flowering . . . . .	—50	2.25	4.—	—
230	<b>mojavensis</b> , rare . . . . .	—50	—	—	—
231	<b>paucispinus</b> . . . . .	—50	—	—	—
243	<b>phoeniceus</b> , hardy . . . . .	—40	1.80	3.20	—
245	<b>procumbens</b> . . . . .	—30	1.40	2.40	21.—
246	<b>Reichenbachii</b> . . . . .	—45	—	—	—
251	<b>tuberosus</b> , wonderful large flowers, rare (Wilcoxia) . . . . .	—60	2.70	4.80	—
253	<b>viridiflorus</b> , hardy . . . . .	—50	—	—	—
254	many kinds mixed . . . . .	—10	—45	—90	8.—



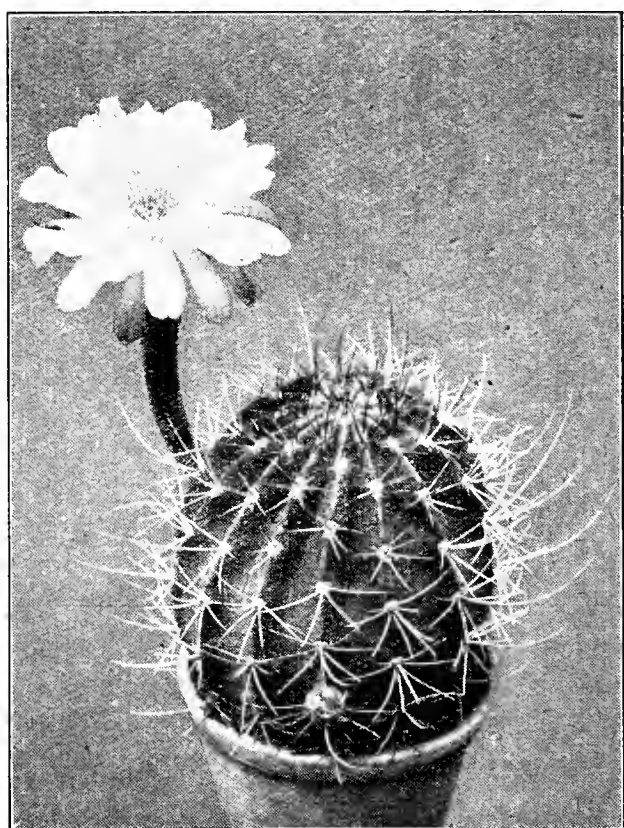
Nr.	<b>Echinopsis</b>	50 s.	250 s.	500 s.	5000 s.
		\$	\$	\$	\$
263	aurea . . . . .	—40	—	—	—
268	<b>boliviensis</b> (Lobivia), long spines . . . . .	—30	1.40	2.40	21.—
272	campylacantha . . . . .	—20	—90	1.60	14.—
273	campylacantha, var. cordobensis . . . . .	—30	1.40	2.40	—
278	Eyriesii, white blossoms	—30	1.40	2.40	—
279c	formosa, straight thin spines . . . . .	—30	1.40	2.40	21.—
279d	formosissima . . . . .	—30	1.40	2.40	21.—
280b	gemmata . . . . .	—40	—	—	—
281	grandis, yellow flowering new . . . . .	—40	1.80	3.20	28.—
282	Hossei (Lobivia) new	—40	1.80	3.20	—
284d	<b>leucantha</b> , heavyspines	—30	1.40	2.40	21.—
291	oxygona . . . . .	—30	1.40	2.40	21.—
293a	<b>potosina</b> (Lobivia) a ri- cently introduced alpine plant . . . . .	—40	1.80	3.20	28.—
294	rhodacantha, red spined	—20	—90	1.60	14.—
295	rhodotricha var. argentin.	—40	1.80	3.20	28.—
296	<b>saltensis</b> (Lobivia) large fl seeds available the first time . . . . .	—50	2.25	4.—	35.—
299	Schickendantzii, good for grafting . . . . .	—50	2.25	4.—	—
300	spiniflora . . . . .	—60	—	—	—
304	tubiflora . . . . .	—30	1.40	2.40	21.—
309	valida . . . . .	—50	2.25	4.—	35.—
314	Zuccariniana . . . . .	—30	1.40	2.40	—
317	species nova (Lobivia) fl. dark red, from Bolivia	—60	2.70	4.80	—
320	many kinds mixed . . .	—10	—40	—75	6.—

<b>Mamillaria</b>					
353	angularis v. compressa .	—30	1.40	2.40	21.—
355	aureiceps . . . . .	—50	—	—	—
360	<b>Boccasana</b> , with white hairs, free flowering .	—25	1.20	2.—	17.50
365	candida, white, rose fl.	—30	1.40	2.40	21.—
367	camptotricha . . . . .	—50	—	—	—
369a	carnea . . . . .	—40	1.80	3.20	28.—
371	Celsiana . . . . .	—50	—	—	—
372	centricirrho . . . . .	—30	—	—	—
377	chlorantha . . . . .	—30	—	—	—
378	chionocephala . . . . .	—25	1.20	2.—	17.50
379	Collina . . . . .	—40	1.80	3.20	—
385	crassispina . . . . .	—40	—	—	—
388b	dealbata . . . . .	—50	—	—	—
389	decipiens, good growing	—40	1.80	3.20	28.—
391	dioica . . . . .	—40	—	—	—
393	Donatii . . . . .	—25	1.20	2.—	—
395	echinoidea, very nice	—20	—90	1.60	14.—
396	elegans, white . . . . .	—30	1.40	2.40	—
397	elephantidens, largest flowers of all . . . . .	—50	2.25	4.—	—
398a	elongata v. anguinea . .	—40	—	—	—
398b	<b>elongata v. stella</b> <b>aurata</b> , „goldstar“ . .	—30	1.40	2.40	21.—
403	fertilis . . . . .	—50	—	—	—
404	fuscata . . . . .	—40	—	—	—
413	Gülzowiana, bright red flowers . . . . .	—90	—	—	—

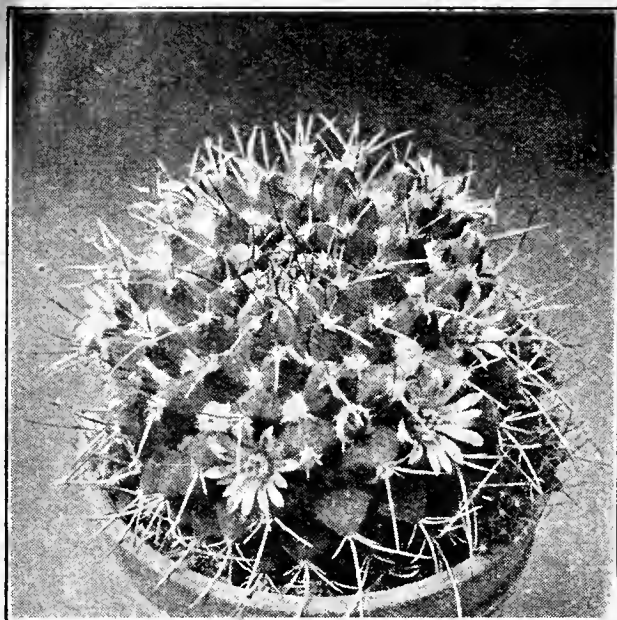


**Echinocereus Fitschii**  
seeds Nr. 229

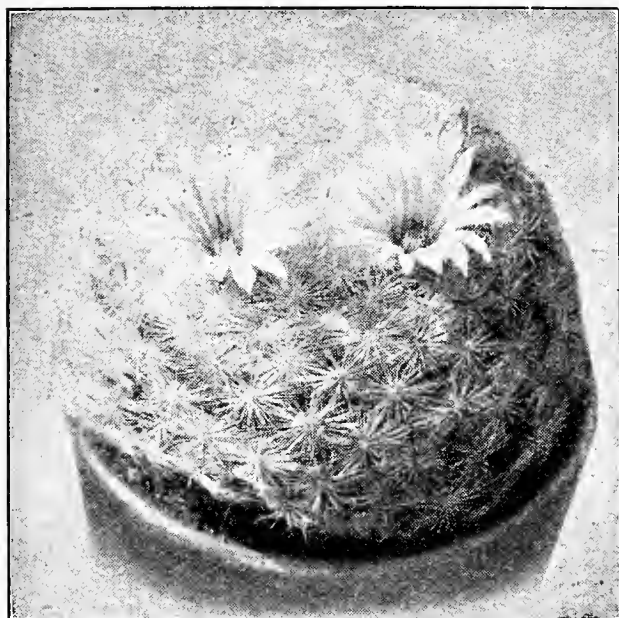
**IV. Bolivia/Chile-Kollektion:**  
6 different rare sorts, one packet each  
price \$ 1.—



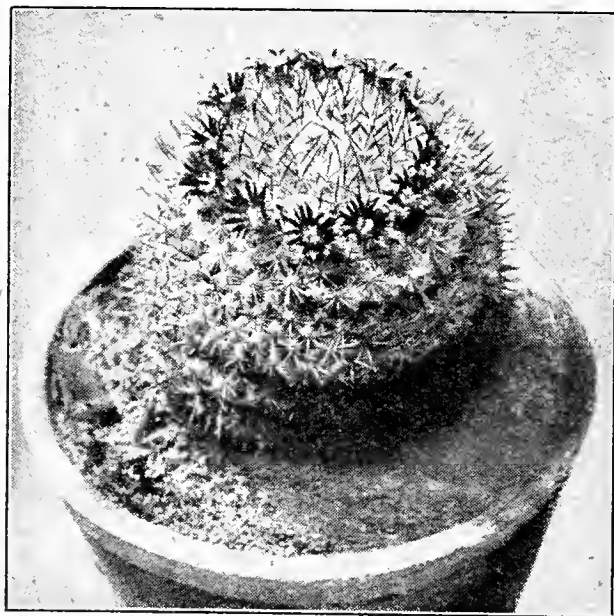
**Echinopsis campylacantha**  
seeds Nr. 272



**Mamillaria angularis**  
seeds Nr. 353



**Mamillaria candida**  
seeds Nr. 365



**Mamillaria elegans**  
seeds Nr. 396

Nr.	<b>Mamillaria</b>	50 s. \$	250 s. \$	500 s. \$	5000 s. \$
416	<b>grandiflora</b> , white, flowers purple . . . . .	—20	—90	1.60	14.—
419	Haageana . . . . .	—40	—	—	—
419a	Heeseana . . . . .	—30	—	—	—
421	<b>Heyderi applanata</b> , good growing . . . . .	—20	—90	1.60	14.—
422	hidalgensis . . . . .	—40	—	—	—
423	hemisphaerica . . . . .	—30	—	—	—
425	Karwinskyana . . . . .	—50	—	—	—
427	Kunthii, white . . . . .	—40	—	—	—
429b	lanata, white ball . . . . .	—30	1.40	2.40	—
431	leona, columnar . . . . .	—40	—	—	—
432	lenta, rare . . . . .	—60	—	—	—
434	longimamma . . . . .	—50	—	—	—
436	Lesauieri, free flowering . . . . .	—50	—	—	—
438	longiflora . . . . .	—50	1.80	3.20	28.—
440	<b>macrothele</b> , seedlings wonderful . . . . .	—40	1.80	3.20	28.—
441	macromeris . . . . .	—60	—	—	—
442	Mainae, green body with yellow spines, fl. white and purple striped . . . . .	—75	—	—	—
452	montana . . . . .	—40	—	—	—
459	Mölleriana . . . . .	—50	—	—	—
459d	nigra, black spines . . . . .	—30	—	—	—
461	mystax . . . . .	—40	1.80	3.20	—
462	Mühlbaueriana . . . . .	—50	—	—	—
464	Ottonis . . . . .	—30	—	—	—
466	Palmeri . . . . .	—20	—	—	—
472	perbella, short spines, white . . . . .	—50	—	—	—
472b	Pfeifferi, yellow spines . . . . .	—20	—	—	—
473	phellosperma, very rare . . . . .	—75	—	—	—
474	plumosa . . . . .	—60	—	—	—
475	Pringlei, close yellow spined . . . . .	—40	1.80	3.20	—
479	Potsii . . . . .	—30	—	—	—
479c	Potosina . . . . .	—40	1.80	3.20	28.—
481	pseudoperbella . . . . .	—30	1.40	2.40	—
487	radians . . . . .	—30	1.40	2.40	21.—
491	recurvata (Coryphantha), rare . . . . .	—50	—	—	—
494	rhodantha . . . . .	—20	—90	1.60	—
497b	rosea-alba . . . . .	—25	1.20	2.—	—
498b	Schiedeana, rare . . . . .	—50	—	—	—
506	<b>simplex</b> , from Venezuela . . . . .	—30	1.40	2.40	21.—
506b	Sheldonii, rare . . . . .	—50	—	—	—
507	sphaerica, valnable plant . . . . .	—40	1.80	3.20	—
508a	spinosissima v. sangui- nea, blood-red spines . . . . .	—50	2.25	4.—	35.—
511	sulcolanata, large fl. . . . .	—30	—	—	—
515	tuberculosa . . . . .	—20	—	—	—
526	<b>uncinata</b> . . . . .	—15	—70	1.20	10.50
528	valida, heavy spined . . . . .	—40	1.80	3.20	28.—
529b	Vaupeliana . . . . .	—25	1.20	2.—	17.50
532	Viereckii . . . . .	—40	1.80	3.20	—
534	viperina . . . . .	—50	—	—	—
537	Waltheri . . . . .	—50	—	—	—
539	zephyranthoides, fine . . . . .	—40	1.80	3.20	28.—
540	<b>Zeyeriana</b> . . . . .	—20	—90	1.60	14.—
542	many kinds mixed . . . . .	—10	—45	—90	8.—

## Neowerdermannia

550	Vorwerkii, strinking no- velty, purple fl. seeds available the first time . . . . .	—45	2.—	3.60	—
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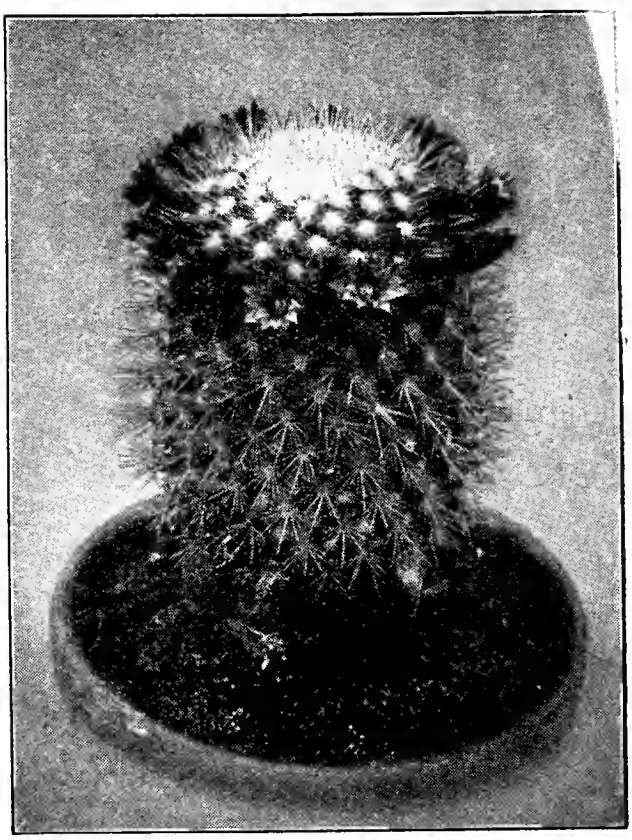
Nr.	Opuntia	50 s. \$	250 s. \$	500 s. \$	5000 s. \$
560	atroviridis (floccosa v. denudata) . . . . .	— .50	2.25	4.—	—.—
564	aoracantha . . . . .	— .40	—.—	—.—	—.—
566	Amyclea, long white spines . . . . .	— .40	1.80	3.20	—.—
567c	bala . . . . .	— .45	—.—	—.—	—.—
571	camanchica, hardy . . . . .	— .60	—.—	—.—	—.—
578	ficus indica . . . . .	— .20	— .90	1.60	14.—
582	<b>distans</b> , blue new . . . . .	— .45	2.—	3.60	31.50
585	floccosa, with white hairs . . . . .	— .60	—.—	—.—	—.—
588	frutescens . . . . .	— .30	1.40	2.40	—.—
589	hypsochila, very rare, n w . . . . .	— .50	2.25	4.—	—.—
590	Hildmannii . . . . .	— .30	1.40	2.40	21.—
590d	hyptiacantha . . . . .	— .30	—.—	—.—	—.—
590e	ignescens . . . . .	— .40	1.80	3.20	28.—
592b	Kleiniae . . . . .	— .30	1.40	2.40	—.—
593c	Jocoquilla . . . . .	— .30	1.40	2.40	21.—
599	longispina . . . . .	— .50	—.—	—.—	—.—
603	nigrispina, fine . . . . .	— .40	1.80	3.20	—.—
605	<b>microdasys</b> . . . . .	— .30	1.40	2.40	21.—
606	„ var. rufida . . . . .	— .40	1.80	3.20	—.—
609	Pentlandii . . . . .	— .50	2.25	4.—	—.—
611	pilifera, white spines . . . . .	— .30	1.40	2.40	—.—
613	Quimilo . . . . .	— .30	—.—	—.—	—.—
614	<b>Soehrensii</b> , new . . . . .	— .30	1.40	2.40	—.—
615	Rafinesquiana, hardy . . . . .	— .20	— .90	1.60	14.—
617	silvestris (Peru) . . . . .	— .60	—.—	—.—	—.—
618	sphaerica v. violaciflora, blue fl. ball shaped, black spines, rare . . . . .	— .60	2.70	4.80	—.—
618c	species nova, from Bo- livia, white haired, spines white and brown, very beautiful . . . . .	— .40	1.80	3.20	28.—
619	serrana . . . . .	— .50	—.—	—.—	—.—
619a	subterranea, peculiar plant . . . . .	— .50	2.25	4.—	—.—
619c	stenarthra . . . . .	— .50	—.—	—.—	—.—
622	tomentosa . . . . .	— .35	—.—	—.—	—.—
624a	tunicata . . . . .	— .30	1.40	2.40	—.—
624c	tuna azul . . . . .	— .40	—.—	—.—	—.—
626g	Weberi, rare . . . . .	— .50	—.—	—.—	—.—
626k	Weberi var. red fl. long bristles . . . . .	— .40	1.80	3.20	28.—
626i	vulgaris, hardy . . . . .	— .20	— .90	1.60	14.—
627	many kinds mixed . . . . .	— .10	— .30	— .50	4.—

# Phyllocactus

645	alatus . . . . .	— .40	—.—	—.—	—.—
660	large flowering hybrids mixed . . . . .	— .30	1.40	2.40	20.—

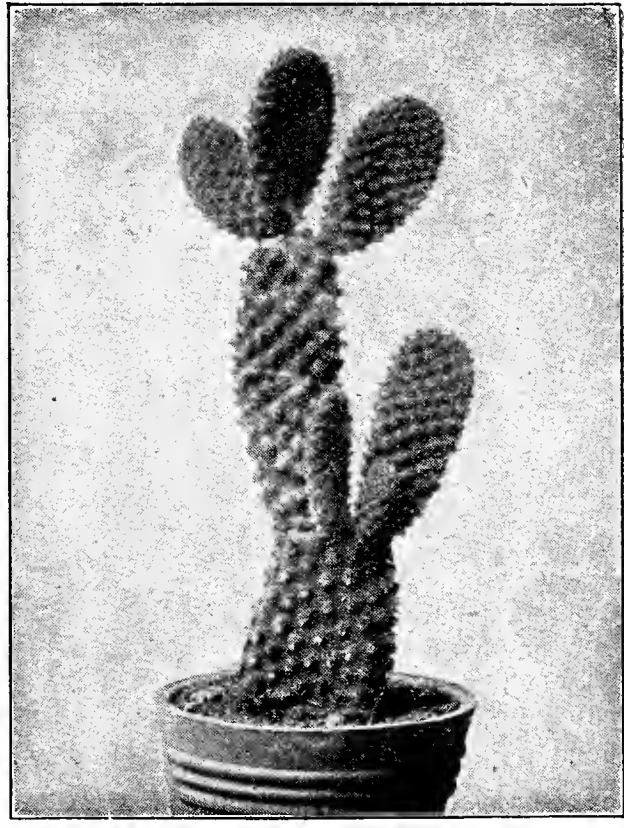
# Pilocereus

664	atroviridis, good growing . . . . .	— .60	2.70	4.80	—.—
666	albispinus, light spines and white hairs . . . . .	— .50	2.25	4.—	35.—
666a	albispinus var. Weberi . . . . .	— .50	—.—	—.—	—.—
666b	<b>Celsianus var.</b> , red fl. long spines and white hairs, one of the most beautiful Pilocereus . . . . .	— .30	1.40	2.40	21.—
666d	Backebergii . . . . .	— .70	—.—	—.—	—.—



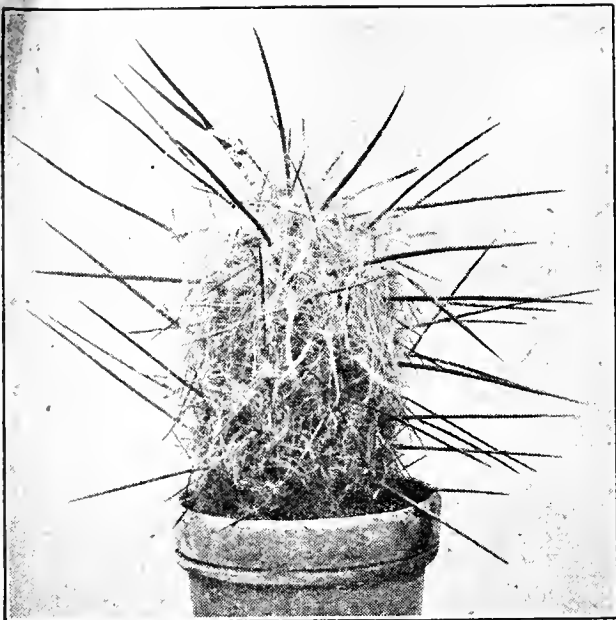
**Mamillaria spinosissima var. sanguinea**  
seeds Nr. 508 a

**V. Brasil/Uruguay-Kollektion:**  
6 different rare sorts, one packet each  
price \$ 1.—

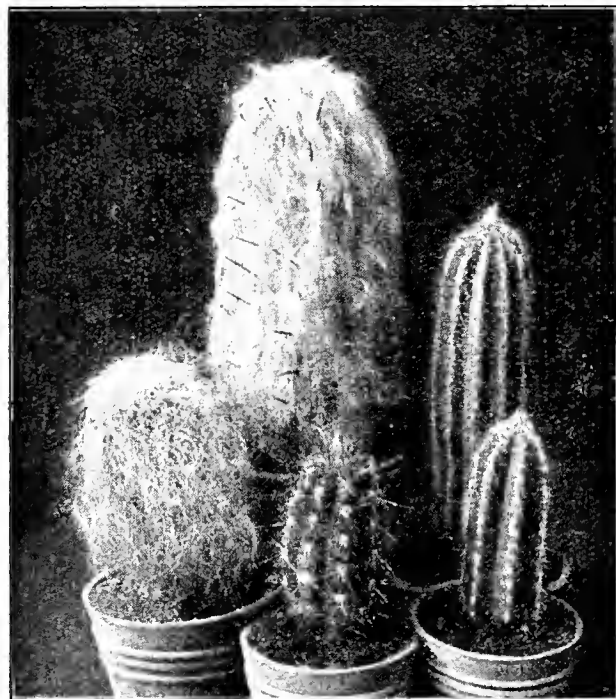


**Opuntia microdasys**  
seeds Nr. 605

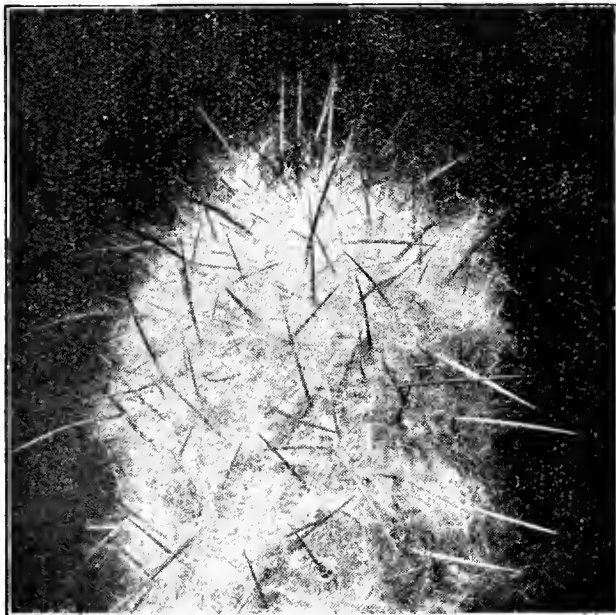




**Pilocereus Celsianus var.**  
seeds Nr. 666 b



**Pilo- und Cephalocereen**  
seeds Nr. 680



**Pilocereus Trollii**  
seeds Nr. 679

Nr.	<b>Pilocereus</b>	50 s. \$	250 s. \$	500 s. \$	5000 s. \$
667	chrysacanthus, golden yellow . . . . .	—40	1.80	3.20	28.—
668d	Dautwitzii var. Haagei, pure white . . . . .	—80	—	—	—
669	euphorboides . . . . .	—30	1.40	2.40	—
671	Fričii . . . . .	—60	—	—	—
672	<b>(Espostoa) giganteus, (Cereus sericatus) a</b> better growing „Dautwitzii“, fine . . . . .	—75	3.40	6.—	—
675	lanuginosus, the most valuable Pilocereus . . . . .	—90	—	—	—
676a	species nova „Poco“, long spined, very fine . . . . .	—50	2.25	4.—	—
677	Moritzianus . . . . .	—45	2.—	3.60	—
677a	Remolinensis, very rare . . . . .	—90	—	—	—
677c	Russelianus . . . . .	—80	—	—	—
677f	Smithianus . . . . .	—90	—	—	—
678a	Tetetzto, good growing . . . . .	—30	1.40	2.40	21.—
679	<b>Trollii</b> , almost hardy, red and orange colored spines, the finest discovery of the last years . . . . .	—50	2.50	4.40	42.—
680	many kinds mixed . . . . .	—10	—45	—90	8.—

## Cacti of all kinds

684	mixed . . . . .	—10	—30	—50	4.—
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## Seeds of other succulent plants

Nr.		50 s. \$	500 s. \$	5000 s. \$
718	Agave chiapensis . . . . .	—25	—	—
734	„ Ghiesbreghtii . . . . .	—30	2.40	—
740	„ horrida . . . . .	—20	—	—
741b	„ ingens . . . . .	—20	1.60	—
749	„ macracantha . . . . .	—30	—	—
752	„ maculosa . . . . .	—40	—	—
758	„ polyacantha . . . . .	—20	1.60	—
759	„ parviflora . . . . .	—50	—	—
773	„ Verschaffeltii . . . . .	—30	2.40	—
775	„ Victoriae Reginae . . . . .	—40	—	—
781	„ many kinds mixed . . . . .	—20	1.60	—
797	Aloe caesia . . . . .	—30	—	—
802	„ davyana . . . . .	—20	1.60	—
812	„ ferox . . . . .	—30	—	—
820	„ Hanburyana . . . . .	—20	1.60	14.—
826	„ microstigma . . . . .	—40	3.20	—
846	„ Saponaria . . . . .	—20	—	—
854	„ striata . . . . .	—40	—	—
856	„ umbellata . . . . .	—30	—	—
874	„ many kinds mixed . . . . .	—10	—80	7.—
876	Anacampseros albissima . . . . .	—50	4.—	—
877	„ alta v. Poelln. sp. nova . . . . .	—50	—	—
882c	„ Meyeri v. Poelln. sp. nova . . . . .	—50	—	—
882f	„ papyracea . . . . .	—40	3.20	—
882g	„ parviflora v. Poelln. sp. nova . . . . .	—60	—	—
883	Bonaparteia hystrix, interesting . . . . .	—20	—	—



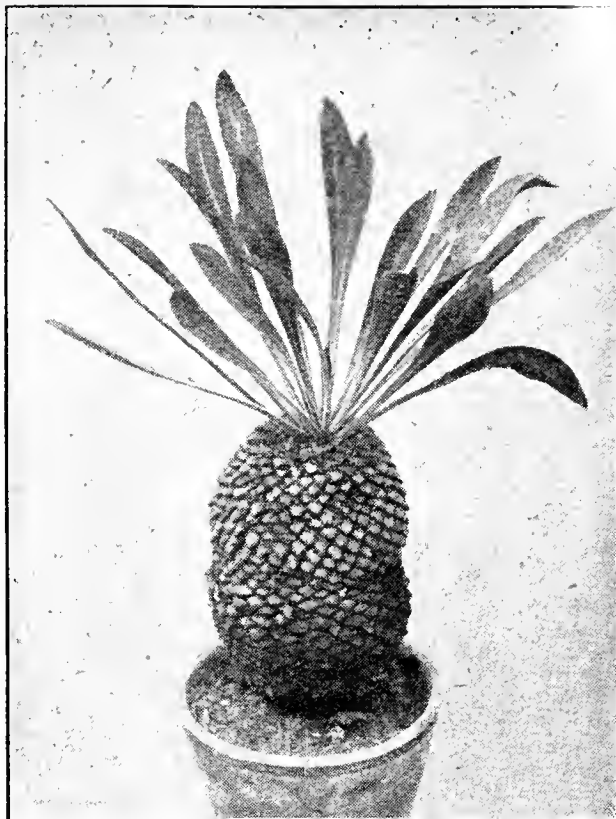
# Seeds of other succulent plants

Nr.		50 s. \$	500 s. \$	5000 s. \$
884	<i>Caralluma pseudo-New-brownii</i> , rare . . . . .	— .50	— .—	— .—
888c	<i>Crassula clavifolia</i> . . . . .	— .50	— .—	— .—
889	" <b>columnaris</b> , very nice . . . . .	— .50	— .—	— .—
890	" <i>deceptrix</i> , one of the finest . . . . .	— .60	— .—	— .—
891	" <i>decipiens</i> . . . . .	— .45	— .—	— .—
911	<i>Echeveria de Smetiana</i> , frosted leaves . . . . .	— .20	1.60	14. —
939	" <i>setosa</i> . . . . .	— .30	2.40	— .—
941	<i>Euphorbia aphylla</i> . . . . .			
	25 seeds \$ 0.90 . . . . .	1.60	— .—	— .—
942	" <i>atropurpurea</i> . . . . .			
	25 seeds \$ 1.20 . . . . .	— .—	— .—	— .—
943	" <i>balsamifera</i> . . . . .			
	25 seeds \$ 0.70 . . . . .	1.20	— .—	— .—
945	" <i>bupleurifolia</i> . . . . .			
	10 seeds \$ 1.20 . . . . .	5. —	— .—	— .—
946	" <b>canariensis</b> , good growing . . . . .	— .30	2.40	21. —
951	" <i>fasciculata</i> (formerly: <i>tuberculata</i> ) the rarest of all 10 seeds \$ 1.50 . . . . .	— .—	— .—	— .—
952	" <i>gorgonis</i> "head of Medusa" 10 seeds \$ 1.20 . . . . .	— .—	— .—	— .—
954	" <i>meloformis</i> 10s \$ 0.90 . . . . .	— .—	— .—	— .—
956	" <b>obesa</b> , most desired . . . . .			
	10 seeds \$ 1.20 . . . . .	5. —	— .—	— .—
963	" <i>Regis Jubae</i> . . . . .	— .75	— .—	— .—
1002	<i>Gasteria maculata</i> . . . . .	— .40	3.20	— .—
1004	" <i>marmorata</i> , fine . . . . .	— .45	— .—	— .—
1012	" <i>obtusifolia</i> . . . . .	— .40	3.20	— .—
1042	" mixed . . . . .	— .25	2. —	17.50
1045	<i>Grenovia gracilis</i> . . . . .	— .15	1.20	— .—
1080	<i>Kalanchoe thyrsiflora</i> . . . . .	— .10	— .80	7. —
1196	<b><i>Rochea falcata</i></b> , large, red umbellate flowers . . . . .	— .40	3.20	28. —
125c	<i>Sedum rubens</i> . . . . .	— .20	— .—	— .—
1370	<i>Stapelia de Smetiana</i> , large flowering . . . . .	— .70	— .—	— .—
1375	" <i>grandiflora</i> . . . . .	— .60	— .—	— .—
1390	" <i>Schinzii</i> . . . . .	— .80	— .—	— .—
1409	" <i>variabilis</i> . . . . .	— .45	3.60	— .—
1410	" <i>variegata</i> . . . . .	— .40	— .—	— .—
1412	" <i>verrucosa</i> . . . . .	— .50	4. —	— .—
1415	" mixed . . . . .	— .35	2.80	— .—
1450	<i>Yucca Draconis</i> . . . . .	— .15	— .—	— .—
	"Cacti in the home" Guide to the indoor cultivation of cacti. Price \$ 0.25 post paid			

## Mesembrianthemum

easiest to grow from seed, most of them flowering in first or second year.

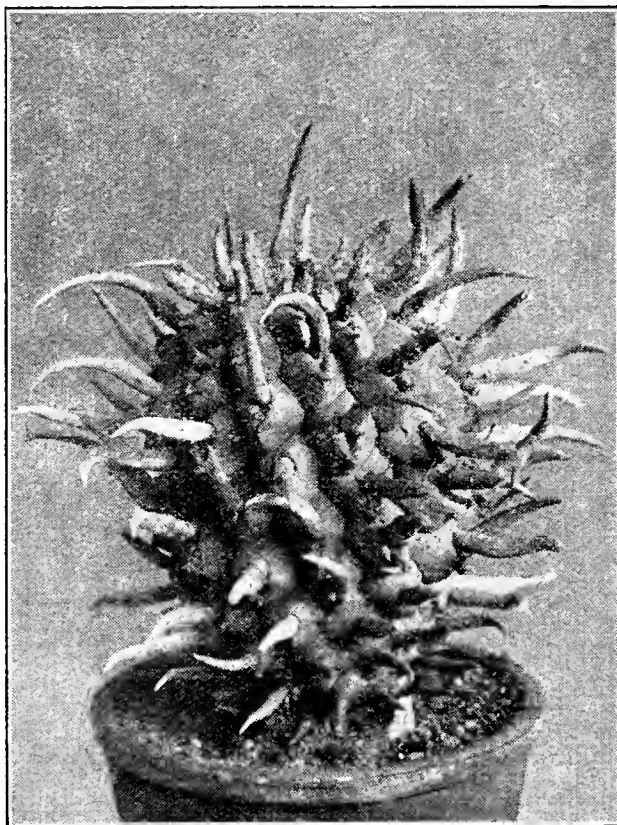
	25 s. \$	50 s. \$	500 s. \$
1518 <i>Argeta petrensis</i> . . . . .	— .50	— .90	— .—
1520 <i>Argyroderma Braunsii</i> . . . . .	— .60	1. —	— .—
1544 " <i>Schlechteri</i> . . . . .	— .70	1.20	— .—
1546 " <b>testiculare</b> . . . . .	— .25	— .45	3 60
1547 " " yellow flow. . . . .	— .25	— .45	3.60
1551 <i>Aridaria pentagona</i> . . . . .	— .—	— .30	2.40
1551d <i>Bergeranthus vespertinus</i> . . . . .	— .—	— .30	— .—



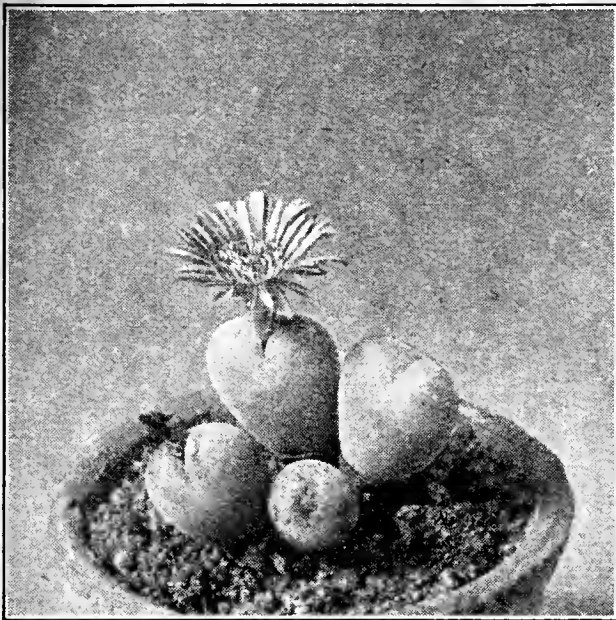
**Euphorbia bupleurifolia**  
seeds Nr. 945

## VI. Peru-Kollektion :

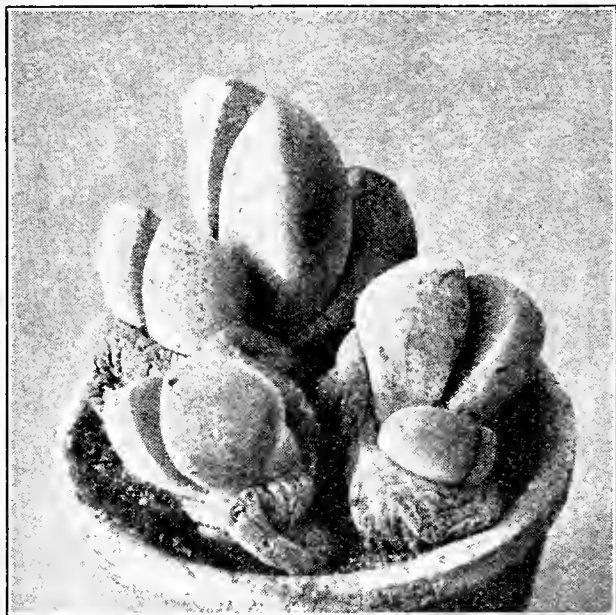
12 different rare sorts, one packet each  
price \$ 1. —



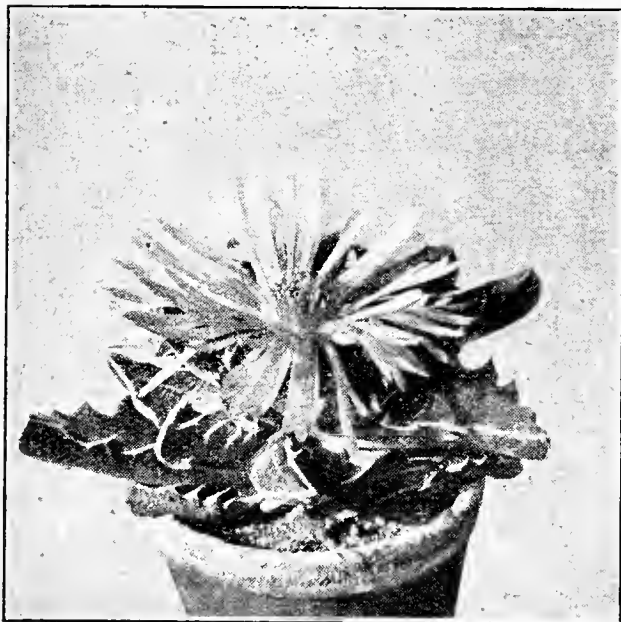
**Euphorbia fasciculata**  
seeds Nr. 951



**Conophytum**  
seeds Nr. 1614—1690



**Dinteranthus puberulus**  
seeds Nr. 1709



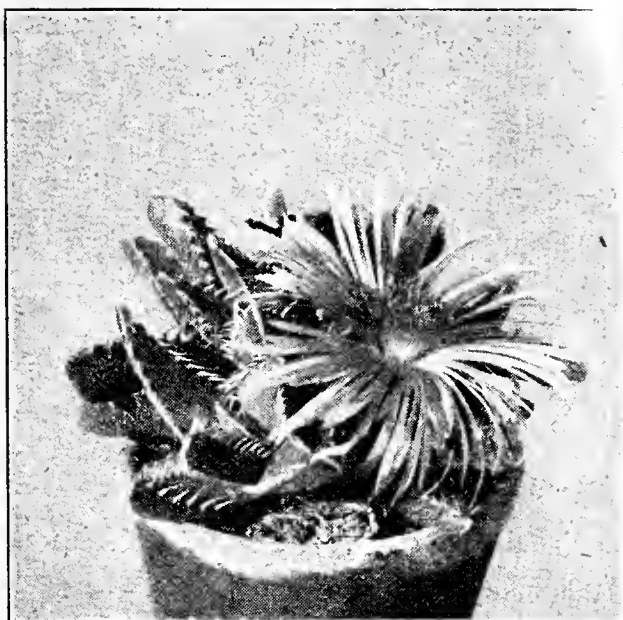
**Faucaria felina**  
seeds Nr. 1749

## Nr. **Mesembrianthemum**

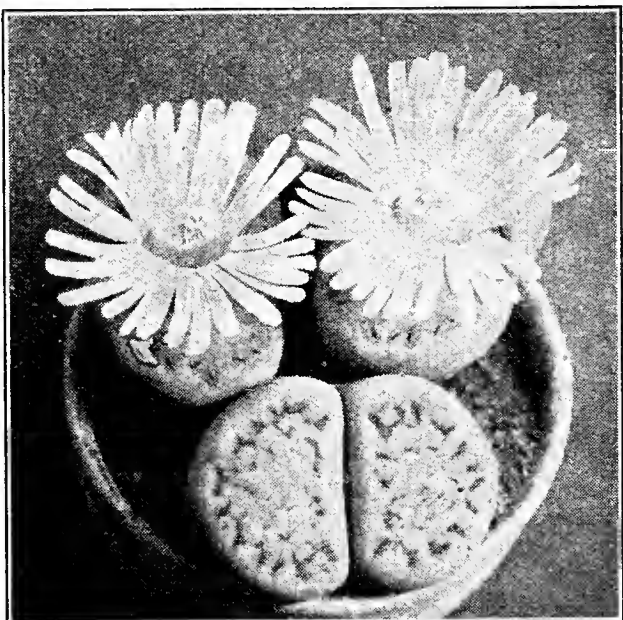
	25 s. \$	50 s. \$	500 s. \$
1551e <i>Braunsia Maximiliani</i> . . .	—70	—	—
1552 <i>Carpobrotus edulis</i> . . . . .	—	—10	—
1562 <i>Cephalophyllum acutum</i> . . .	—40	—75	6.—
1580 <i>Chasmatophyllum muscu-</i> <i>linum</i> . . . . .	—25	—45	3.60
1585 <i>Cheiridopsis aspera</i> . . . . .	—40	—75	—
1586 " <i>bella</i> . . . . .	—70	—	—
1589 " <i>candidissima</i> . . . . .	—70	—	—
1591 " <i>cigaretifera</i> . . . . .	—40	—75	—
1594 " <b>Derenbergiana</b> . . . . .	—	—30	2.40
1596 " <i>Herrei L. Bol. sp. n.</i> . . .	—40	—75	—
1597b " <i>inaequalis</i> . . . . .	—25	—45	3.60
1598 " <i>Johannis Winkleri</i> . . . . .	—60	1.—	—
1600 " <i>Marlothii</i> . . . . .	—40	—75	—
1601 " <i>Meyeri</i> . . . . .	—60	1.—	—
1602 " <i>peculiaris</i> . . . . .	—40	—75	6.—
1603 " <i>Richardiana</i> . . . . .	—60	1.—	—
1606 " <i>Pillansii</i> . . . . .	—70	—	—
1607 " <i>multiserrata L. Bol.</i> <i>sp. nova</i> . . . . .	—60	1.—	—
1608a " <i>species nova</i> Nr 8830 <i>Kapland, unnamed</i> . . . . .	—60	1.—	—
1612 <i>Conophyllum chrysoleucum</i> . .	—70	1.20	—
1613 " <i>Herrei</i> . . . . .	—80	1.40	—
1614 <i>Conophytum albescens</i> . . . .	—60	1.—	—
1615 " <i>Braunsii</i> . . . . .	—70	1.20	—
1616 " <i>breve</i> . . . . .	—70	1.20	—
1618 " <i>calculus</i> . . . . .	—60	1.—	—
1623 " <i>frutescens</i> . . . . .	1.—	—	—
1630 " <i>kubusbergensis Law.</i> <i>sp. nova</i> . . . . .	—80	1.40	—
1640 " <b>Maughanii</b> . . . . .	—25	—45	3.60
1645 " <i>Meyerae</i> . . . . .	—40	—75	—
1657 " <i>Nevellei</i> . . . . .	—80	1.40	—
1684 " <i>spec. Richtersveld</i> . . . . .	—40	—75	—
1690 " <i>van rhynsdorpense</i> . . . . .	—60	1.—	—
1696 <i>Cylindrophyllum calami-</i> <i>forme</i> . . . . .	—	—20	—
1697 <i>Dactyloopsis digitata</i> . . . .	—80	1.40	—
1698 <i>Delosperma Davyi</i> . . . . .	—40	—75	—
1699 " <i>Ecklonis</i> . . . . .	—40	—75	—
1701 " <i>Lehmanii</i> . . . . .	—40	—75	—
1703 " <i>pergamentacea</i> . . . . .	—60	1.—	—
1704 " <i>robustum</i> . . . . .	—25	—45	3.60
1705 " <i>Steytlerae</i> . . . . .	—40	—75	—
1706 " <i>testaceum</i> . . . . .	—80	1.40	—
1709 <b>Dinteranthus puberulus,</b> <i>very fine</i> . . . . .	—40	—75	6.—
1710 " <i>Margaretae</i> . . . . .	—50	—90	—
1712 <i>Diplosoma retroversum,</i> <i>very rare</i> . . . . .	—80	1.40	—
1716 <i>Drosanthemum autumnale</i> . . .	—40	—75	—
1718 " <i>Framesii v. prostrata</i> . . .	—50	—90	—
1719 " <i>hispidum</i> . . . . .	—50	—90	—
1720 " <i>Lüderitzii</i> . . . . .	—40	—75	—
1726 " <i>Schoenlandianum</i> . . . . .	—40	—75	6.—
1728 " <i>speciosum</i> . . . . .	—50	—90	—
1729 " <i>subcompressum</i> . . . . .	—25	—45	3.60
1731 " <i>uncinella</i> . . . . .	—60	1.—	—
1735 <i>Ebracteola Derenbergiana</i> . .	—40	—75	—
1740 " <i>Montis Moltkei</i> . . . . .	—25	—45	—
1749 <i>Faucaria felina</i> . . . . .	—60	1.—	—
1752 " <i>lupina</i> . . . . .	—50	—90	—
1755 " <i>tigrina</i> . . . . .	—60	1.—	—
1765 <i>Fenestraria rhopalophylla</i> . .	—80	1.50	—
1770 <i>Gibbaeum album</i> . . . . .	1.20	2.—	—

# Nr. Mesembrianthemum

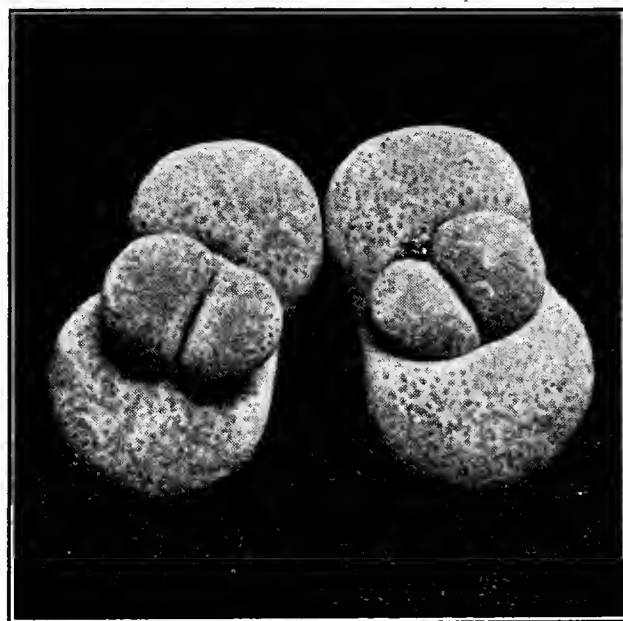
	25 s. \$	50 s. \$	500 s. \$
1772 <i>Gibbaeum dispar</i> . . . . .	— .60	1.—	—.—
1774 " <i>pilosulum</i> . . . . .	— .80	1.50	—.—
1775 " <i>pubescens</i> . . . . .	— .50	— .90	—.—
1776 <i>Glottiphyllum bigibberatum</i>	—.—	— .40	—.—
1778 " <i>compressum</i> . . . . .	—.—	— .30	—.—
1780 " <b>Haagei</b> , opalescent body, very large fra- grant flowers . . . . .	—.—	— 40	3.20
1783 " <i>linquiforme</i> . . . . .	—.—	— .20	—.—
1784 " <i>lucidum</i> . . . . .	—.—	— .30	—.—
1787 " <i>longum</i> . . . . .	—.—	— .40	—.—
1789 " <i>parviflorum</i> . . . . .	—.—	— .30	—.—
1790 " <i>propinguae</i> . . . . .	—.—	— .40	—.—
1797 <i>Herreroa gracilis</i> L. Bol. sp. nova . . . . .	— .25	— .45	3.60
1798 " <i>Herrei</i> . . . . .	— .60	1.—	—.—
1804 <i>Herreanthus Meyeri</i> , white flowers . . . . .	— .50	— .90	—.—
1805 <i>Hymenocyclus latipetalus</i> .	— .60	1.—	—.—
1806 " <i>Herrei</i> , very nice . . . . .	— .40	— .75	—.—
1806b " <i>luteolus</i> . . . . .	— .50	— .90	—.—
1807 " <i>purpureo-croceus</i> . . . . .	— .25	— .45	—.—
1808 <i>Juttadinteria albata</i> , withe flowers . . . . .	— .40	— .75	6.—
1809 " <i>proxima</i> , red flowers . . . . .	— .50	— .90	—.—
1810 " <i>Simpsonii</i> . . . . .	— .25	— .45	—.—
1811 " sp. <i>Richtersveld</i> . . . . .	— .40	— .75	—.—
1812 " <i>rheolens</i> . . . . .	— .60	1.—	—.—
1816 <i>Lapidaria Margaretae</i> . . . . .	— .50	— .90	7.20
1820 <i>Lithops bella</i> . . . . .	— .60	1.—	—.—
1825 " <i>Eberlanzii</i> . . . . .	— .80	1 50	—.—
1826 " <i>Fulleri</i> . . . . .	— .50	— .90	—.—
1828 " <i>Framesii</i> , withe fl. . . . .	— .80	1.50	—.—
1830 " <b>Lesliei</b> . . . . .	—.—	— .40	3.20
1833 " <i>marmorata</i> . . . . .	— .60	1.—	—.—
1838 " <i>pseudotruncatella</i> . . . . .	—.—	— .40	3.20
1840 " " <b>var. Mundtii</b> . . . . .	—.—	— .50	4.—
1860 " <i>optica</i> , very nice . . . . .	— .45	— .80	7.20
1862 " <i>olivacea</i> , new . . . . .	— .50	— .90	—.—
1864 " <i>Schwantesii</i> . . . . .	— .60	1.—	—.—
1866 " <i>terricolor</i> . . . . .	— .80	1.50	—.—
1876 <i>Mesembrianthemum aureum</i>	— .40	— .75	—.—
1878 " <i>blandum</i> . . . . .	—.—	— .40	—.—
1880 " <i>caulescens</i> . . . . .	— .25	— .45	—.—
1884 " <i>filamentosum</i> . . . . .	—.—	— .30	—.—
1886 " <i>rubropurpureum</i> . . . . .	—.—	— .50	—.—
1887 " <i>stenum</i> , very nice . . . . .	—.—	— .40	3.20
1889 " <i>Watermeyeri</i> L. Bol. sp. nova . . . . .	—.—	— .50	4.—
1890 <i>Meyerophytum Meyeri</i> , large flowers . . . . .	— .50	— .90	—.—
1900 <i>Odontophorus Marlothii</i> . . . . .	— .80	1.50	—.—
1903 " <i>nanus</i> , very rare . . . . .	— .60	1.—	—.—
1904a " <i>species nova</i> Nr. 9266 Kapland, unnamed . . . . .	— .60	1.—	—.—
1906 " <i>primulinus</i> . . . . .	— .50	— .90	—.—
1913 <i>Ophthalmophyllum Herrei</i> , body orange to blood red, valuable pl. . . . .	— .80	1.50	12.—
1916 <i>Oscularia deltoides</i> . . . . .	—.—	— .30	—.—
1920 <i>Pleiospilos Bolusii</i> . . . . .	— .40	— .75	6.—
1922 " <i>dimidiatus</i> L. Bol. sp. nova . . . . .	— .80	1.50	—.—
1928 " <i>Nelii</i> , rare, large fl. . . . .	1.—	—.—	—.—
1930 " <i>prismaticus</i> . . . . .	— .40	— .75	—.—
1932 " <i>Roodiae</i> . . . . .	— .60	1.—	—.—



**Faucaria lupina**  
seeds Nr. 1752

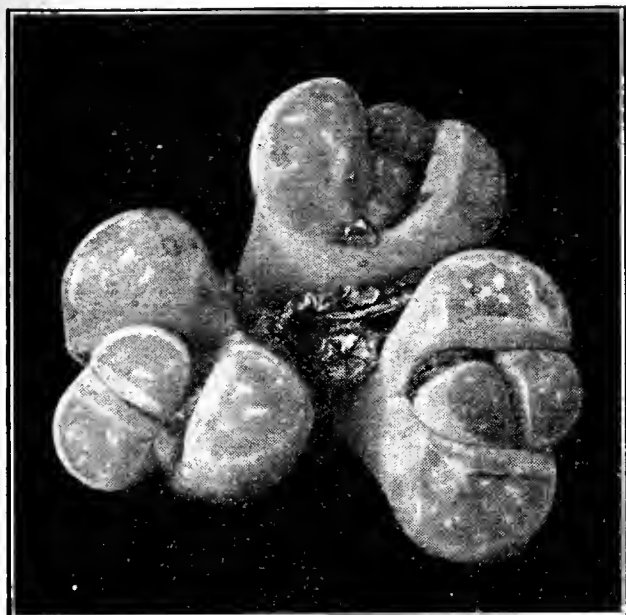


**Lithops Fulleri**  
seeds Nr. 1826

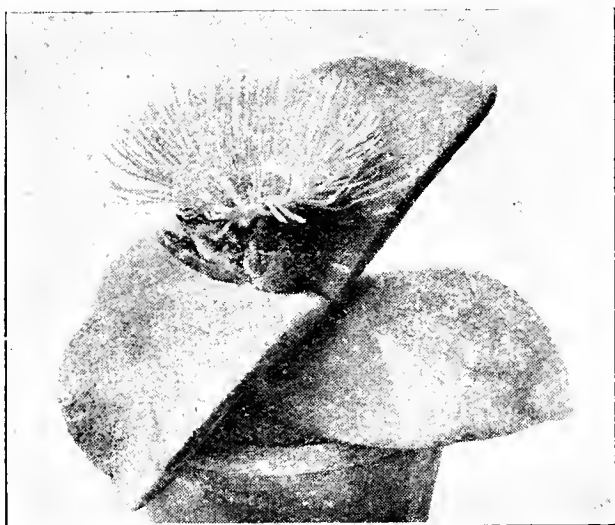


**Lithops terricolor**  
seeds Nr. 1866





**Lithops olivacea** seeds Nr. 1862

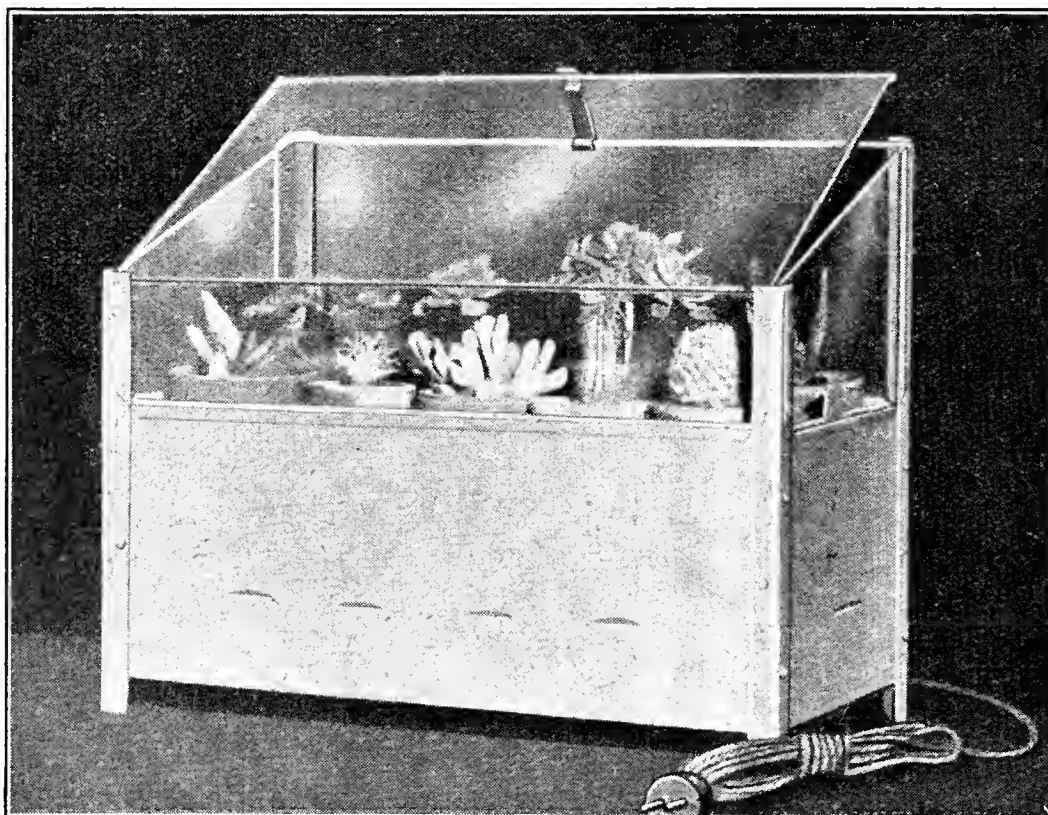


**Pleiospilos simulans** seeds Nr. 1936

## Mesembrianthemum

Nr.	25 s. \$	50 s. \$	500 s. \$
1936 Pleiospilos simulans, fine	— .25	— .45	3.60
1937 " Willowmorensis L.			
<i>Bol. sp. nova</i>	— .60	1.—	— .—
1938 Prensia Sladeniana, rare	— .60	1.—	— .—
1938b Psilocaulon graniculata var.	— .50	— .90	— .—
1940 Punctillaria magnipunctata	— .50	— .90	— .—
1948 Rimaria Heathii	— .60	1.—	— .—
1952 Ruschia cymosa	— .40	— .75	— .—
1952a " dichova var. alba	— .60	1.—	— .—
1952b " gibbosa L. <i>Bol. sp. n.</i>	— .40	— .75	— .—
1953 " hamata	— .40	— .75	— .—
1953a " hexamera var. longi- petala L. <i>Bol. sp. n.</i>	— .60	1.—	— .—
1954c " solida	— .40	— .75	— .—
1955 " tumidula	— .50	— .90	— .—
1955b " uncinella var.	— .50	— .90	— .—
1955d Schwantesia Herrei L. <i>Bol.</i> <i>sp. nova</i>	— .80	1.50	— .—
1957 Stomatium albo-roseum L.			
<i>Bol. sp. nova</i>	— .40	— .75	— .—
1957b " Fulleri	— .50	— .90	— .—
1958 " Meyeri L. <i>Bol. sp. n.</i>	— .40	— .75	— .—
1972 Trichodiadema setuliferum	— .25	— .45	3.60
1974 " stelligerum	— .40	— .75	— .—
1998 many fine kinds (Conoph., Lithops + Pleiosp.) mixed	— .—	— .60	— .—
1999 many kinds mixed of all	— .—	— .30	2.40

Write for: „Cacti in the home“. Guide to the indoor cultivation of cacti. Revised edition, price \$ —.25 post paid.



## The new indoor Hothouse

electrically heated with automatic regulation 8×16×10 inches high, with removable seed pan. It is possible to keep the temperature constantly at 80 or any other degree. Seeds germinate quickly and grow fast. Economical of operation.

Price complet \$ 11.—  
post paid.



# Peru-Expedition 1930-1931

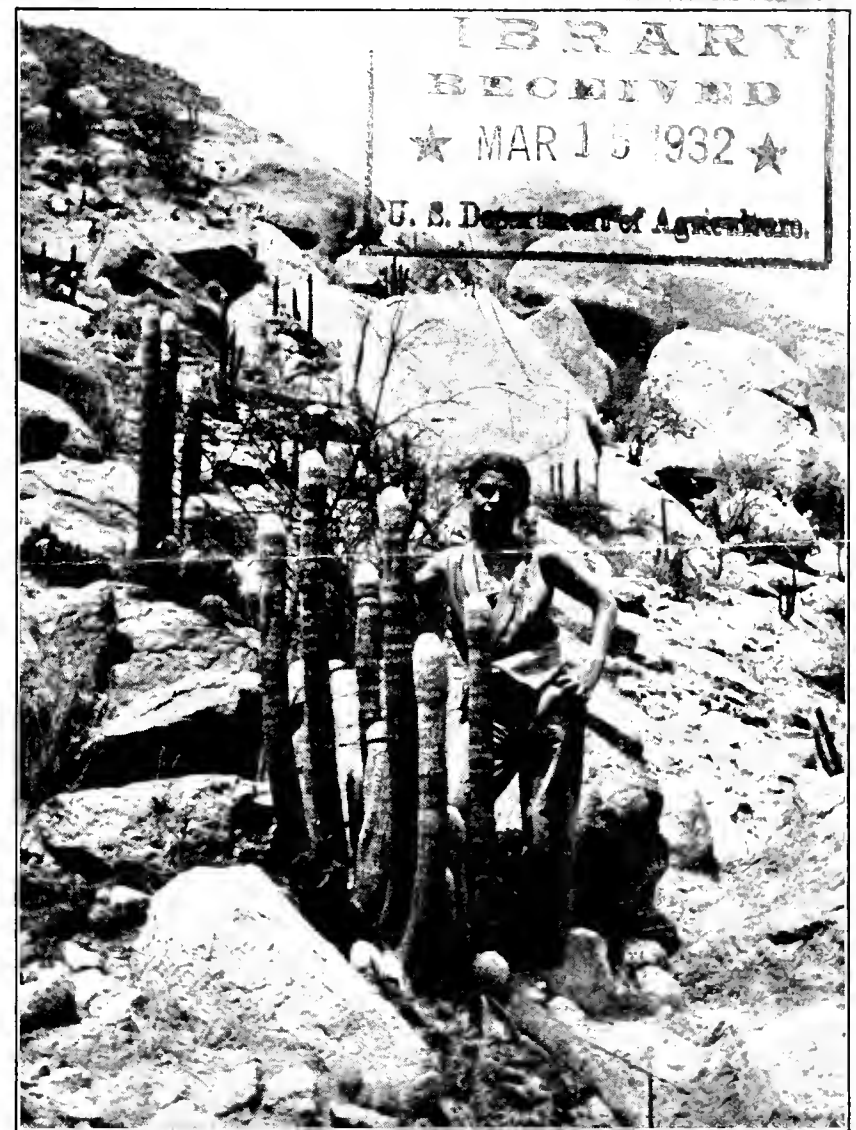


*Photo left*

**Espostoa gigantea**,  
*Bckbg.* (with cristates),  
this new and very  
beautiful species of  
Dautwitzii grows very  
large, has a brilliant  
yellow tip with contrast-  
ing red radial spines.  
A moist location best for  
propagation.  
(New, exclusive species.)

*Photo right*

**Espostoa Dautwitzii**,  
*Bckbg.* (Choisica), much  
shorter and thinner,  
grows on very dry  
rubble. Occasionally  
forms gray central  
spines. Seedlings  
capable of growing on  
own roots without graft-  
ing, established  
possibility.  
(The familiar *Pilocereus*  
*Dautwitzii* Haage jr.)



*My trip through Peru, commissioned by the firm of Friedrich Adolph Haage jr., Erfurt, Germany, is ended. Its purpose was to search the entire country systematically for all known and any new varieties.*

*I went far into the interior of northern Peru, farther than the Americans penetrated, and there near the border of Ecuador I soon found the greatest sensation, which indicated the final solution of the Espostoa problem: namely, a giant of the Dautwitzii species which is incomparably more beautiful than any known cultivated variety. In addition to soft silky long hairs, this most beautiful of all Cerei fashions red and yellow speckled central spines, or is at times quite spineless, in which case the tip is resplendently yellow, and very often forms blood red radial spines. It grows in fairly moist ground, and consequently this wonderful Espostoa is surely better adapted to grow on its own roots without being grafted than the Dautwitzii from Rimactal which grows on very dry rubble.*

*As was to be expected, some new genera were found, the most important of which was Haageocactus rigidissimus, a wonderful cereus. It has dense, red brown spines, often banded with the colors of the rainbow, is shaped like Borzicactus, but has white, wheel-shaped flowers.*

*Beside these I found the rare and unusual Cereus microspermus which forms a large, smooth stemmed, tree-shaped plant, and which later is entirely spineless except for a shock of golden brown bristles at the top.*

*In the northern Interior I finally rediscovered the genuine Borzicactus aurivillus. On its flowering stalks it puts out fingerlong, orange colored bristles, soft as silk. This I did not find anywhere else in Peru as it grows in a very limited area.*

*Other splendid varieties of cacti found are: an entirely new Neoraimondia with dark red flowers, the supergiant of all forms of cacti; the rare Oroya; Matucana; Opuntia floccosa; also the new Opuntia atroviridis which closely resembles Echinocereus Knippelianus; Meyenia Weberbaueri which has closed flowers and is almost finer than Piloc. chrysacanthus; the very rare Mila Cubei which resembles an echinocereus, but bears extra large golden yellow flowers. Finally rare varieties from southern Peru, including Browningia candelaris whose seed was sought in vain since Meyen's time in 1834.*

*All Peruvian kinds, especially the old representatives of the subtribes Corryocactus brevistylus and C. brachypetalus, also the new rose red spined Eulychnocactus from Bolivia, all of these in contrast to most S. American cacti form entirely distinct, usually monotypic genera, which are fundamentally different from all known forms.*

*Binghamia chosiquensis, for instance, is indescribably beautiful, flowering violet red, not white, like a deep golden yellow Strausii. What a new craze for Cerei these smaller columnar Peruvian Cacti will create, even those antagonistic to this tribe will be delighted with them. They are so different, so bizarre, at the same time exceedingly gay, and flower when young. Their picturesque appearance makes them the jewel of every collection, the last link in the cycle of forms.*

*The systematic disclosure of the Peruvian cactacean flora is completed. Now inasmuch as Herr Haage has decided to offer the seeds at a reasonable price so that every one may procure these long wanted rarities, it will be possible for all fanciers to start a small collection of these most interesting of all S. American varieties, especially as they will grow with ordinary care.*

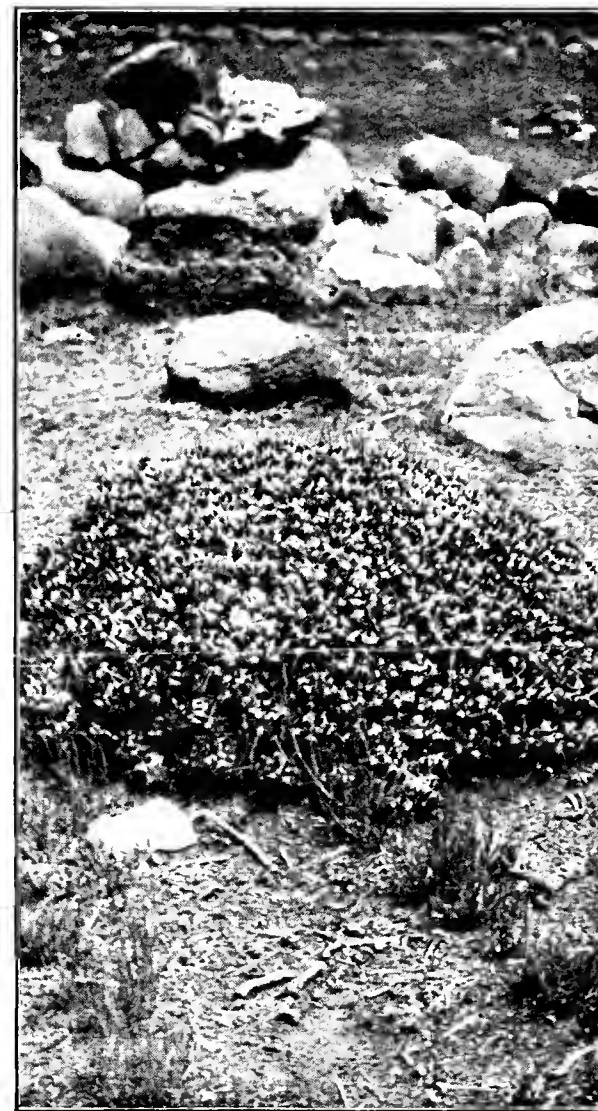
*B.*



**Oroya** (*Echus. peruvianus*) *Br. and R.*  
 Splendid genus, rose red and abundantly  
 flowering; from central Peru.  
 (Picture shows a giant cristate.)



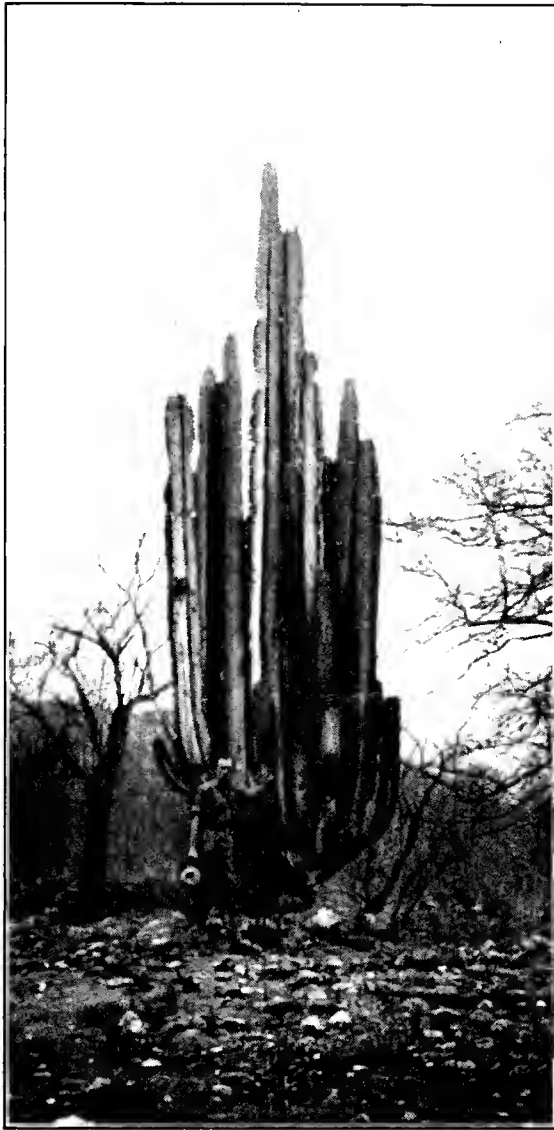
**Binghamia chosiquensis** *Bckbg.*  
 Violet red bloom, much resembles *Strausii*, but  
 has spines of marvellous golden yellow.



**Opuntia atroviridis** *Bckbg.*  
 The clusters resemble *Echc. Knippelianus*.

No.	Name	50 seeds \$	500 seeds \$	5000 seeds \$	No.	Name	50 seeds \$	500 seeds \$	5000 seeds \$
—	<b>Arequipa (Br. &amp; R.) leucotricha Philippi . . .</b>	—	—	—	15m	<b>Corryocactus (Br. &amp; R.) brevistylus K. Sch. .</b>	— .50	4.50	40.—
662	<b>Binghamia (Br. &amp; R.) acrantha Vpl.</b> Extremely rare, fiercely spined cereus. Grows only in one definite locality. Splendid species	— .60	—	—	67	<b>Erdisia (Br. &amp; R.) squarrosa Vpl. . . . .</b>	— .80	7.20	—
17f	<b>Binghamia (Br. &amp; R.) chosiquensis Bckbg.</b> Has gorgeous red flowers. This wonderful plant can be likened to a golden yellow Strausii	1.—	9.—	— .80	672	<b>Espostoa (Br. &amp; R.) gigantea Bckbg. sp. n.</b> The Sensation. The genus Espostoa, formerly monotypic, consists of fundamentally different species. E. gigantea is the handsomest			
54	<b>Binghamia (Br. &amp; R.) melanosthele Vpl. . .</b>	1.—	9.—	—		<b>v. rubrispina Bckbg.</b>			
15f	<b>Borzicactus (Br. &amp; R.) acanthurus Vpl. . . .</b>	— .50	4.50	40.—		<b>v. longispina Bckbg.</b>			
15e	<b>Borzicactus (Br. &amp; R.) acanthurus v. ferox Bckbg. . . . .</b>	— .80	7.20	—		<b>Espostoa (Br. &amp; R.) Humboldtii Bckbg. . . .</b>	1.30	11.70	—
21c	<b>Borzicactus (Br. &amp; R.) decumbens Vpl. . . .</b>	1.—	9.—	—		<b>Espostoa (Br. &amp; R.) Dautwitzii, Bckbg. (Haage jr.)</b> Familiar one, we grow it by grafting; grows on dry rubble in contrast to the fairly moist location of E. gigantea. Seedlings forming a good root system available for first time . . . . .	1.10	9.90	—
16d	<b>Browningia (Br. &amp; R.) candelaris Meyen.</b> In D.K.G. Journal 1929, nos. 2/3, "Imposing representative of the subtribe Cereus". Old variety, forms slender candelabrum; flowers orange red . . . . .	— .40	3.60	32.—	668c				
55	<b>Cereus microspermus Bckbg. . . . .</b>	1.—	9.—	80.—					
15k	<b>Corryocactus (Br. &amp; R.) brachypetalus Vpl. .</b>	— .40	3.60	32.—	15p	<b>Eulychnocactus (Bckbg.) bolivianus Bckbg.</b>	— .50	4.50	40.—

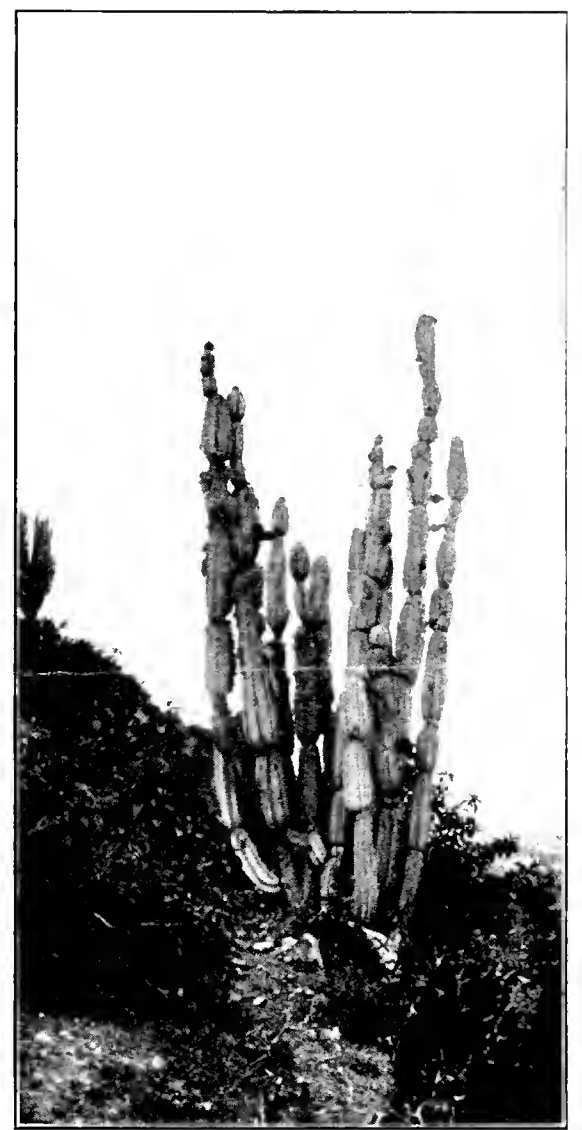




***Neoraimondia gigantea* Bckbg.**  
The most gigantic of all forms of Cacti.  
Red flower.



***Neoraimondia roseiflora* Bckbg.**  
Also has red flowers, but does not grow large;  
a species from Central Peru.



***Lemaireocereus jungo* Bckbg.**  
The genuine *L. laetus* which Humboldt found;  
from the border of Ecuador.

No.	Name	50 seeds \$	500 seeds \$	5000 seeds \$	No.	Name	50 seeds \$	500 seeds \$	5000 seeds \$
16f	<b>Lemaireocereus</b> ( <i>Br. &amp; R.</i> ) <b>cartwrightianus</b> ( <i>Br. &amp; R.</i> ). The tallest giant of <i>Lemaireocereus</i> with the biggest seeds; not glaucous. Forms longest spines of all, easily grown, true green . . . . .	— .60	5.40	38.60	609	<b>Opuntia Pentlandii</b> , <i>S.-D.</i> , Almost spherical, rare kind . . . . .	— .80	7.20	—
36	<b>Lemaireocereus</b> ( <i>Br. &amp; R.</i> ) <b>jungo</b> , <i>Bckbg.</i> . . .	— .60	5.40	38.60	617	<b>Opuntia silvestris</b> , <i>Bckbg.</i> Grows first like <i>Tephrocactus</i> , then like <i>Platyopuntia</i> . (Bolivia, cir. 4000 m. high) . . . . .	1.20	—	—
51c	<b>Lemaireocereus</b> ( <i>Br. &amp; R.</i> ) <b>laetus</b> , <i>H.B.K.</i> . .	— .30	2.70	24.30	165	<b>Oroya peruviana</b> <i>Br. &amp; R. K.Sch.</i> Typ. At last seeds of this much coveted genus are available in quantity. Flowers rose with yellow white . . . . .	— .40	3.60	32.—
13f	<b>Melocactus</b> ( <i>Lk. &amp; O.</i> ) <b>townsendianus</b> , <i>Br. &amp; R.</i>	— .50	4.50	—	165a	<b>Oroya var. aureispina</b> <i>Bckbg.</i> . . . . .	— .50	4.50	40.—
131	<b>Melocactus</b> ( <i>Lk. &amp; O.</i> ) <b>unguispinus</b> , <i>Bckbg.</i> ,	— .80	—	—	165b	<b>Oroya var. rubrispina</b> <i>Bckbg.</i> . . . . .	— .50	4.50	40.—
84b	<b>Meyenia Weberbaueri</b> , <i>Bckbg.</i> . . . . .	— .40	3.60	—	<b>Trichocereus</b> <i>Berger.</i>				
13p	<b>Neoraimondia</b> ( <i>Br. &amp; R.</i> ) <b>gigantea und var. roseiflora</b> , <i>Bckbg.</i> The two new <i>Neoraimondia</i> with red blossoms! <i>N. gigantea</i> is the colossal one. The hugest of any form of <i>Cerei</i> . <i>N. roseiflora</i> does not grow tall, but has red flowers also. Seeds mixed, not available separately . . . . .	1.10	—	—	16b	<b>Trichocereus bridgesii</b> <i>S.-D.</i> . . . . .	— .30	2.70	24.30
560	<b>Opuntia atroviridis</b> , <i>Bckbg.</i> Much like <i>Echinocereus Knippelianus</i> , dark green. Extremely desirable . . . . .	— .60	5.40	—	20b	<b>Trichocereus cuzcoensis</b> <i>Br. &amp; R.</i> The rarest from Interior of Peru. Stable, handsome form . . . . .	— .40	3.60	32.—
					60c	<b>Trichocereus peruvianus</b> <i>Br. &amp; R.</i> (Not to be confused with <i>Piptantocereus peruvianus</i> , the usual foundation stock). Has gorgeous big flowers . . . . .	1.10	—	—

Other seeds:

No.	Name	50 seeds \$	500 seeds \$	5000 seeds \$
44b	<b>Cereus Hassleri</b> . . . . .	— .80	7.20	—
51f	<b>Cereus litoralis</b> (Chile) . . . . .	— .40	3.60	32.—
51b	<b>Cereus Lauterbachii</b> . . . . .	— .40	3.60	32.—
61f	<b>Cereus phatnospermus</b> . . . . .	— .50	4.50	40.—
160	<b>Echinocactus nigricans</b> (Chile) . . . . .	— .40	3.60	32.—
179	<b>Echinocactus scopa ruberrimus</b> . . . . .	— .60	5.40	38.60
317	<b>Lobivia, sp.</b> . . . . .	— .80	7.20	64.80
626g	<b>Opuntia Weberi</b> . . . . .	— .80	7.20	64.80
626k	<b>Opuntia Weberi var.</b> . . . . .	— .80	7.20	64.80
679	<b>Pilocereus Trollii</b> . . . . .	500 seeds	5.50	
884	<b>Caralluma pseudo-Newbournii</b> . . . . .	50 seeds	1.—	
1860	<b>Lithops optica</b> . . . . .	50 seeds	2.40	



**Browningia candelaris**, *Br. & R.*, seeds of this are obtainable for the first time.

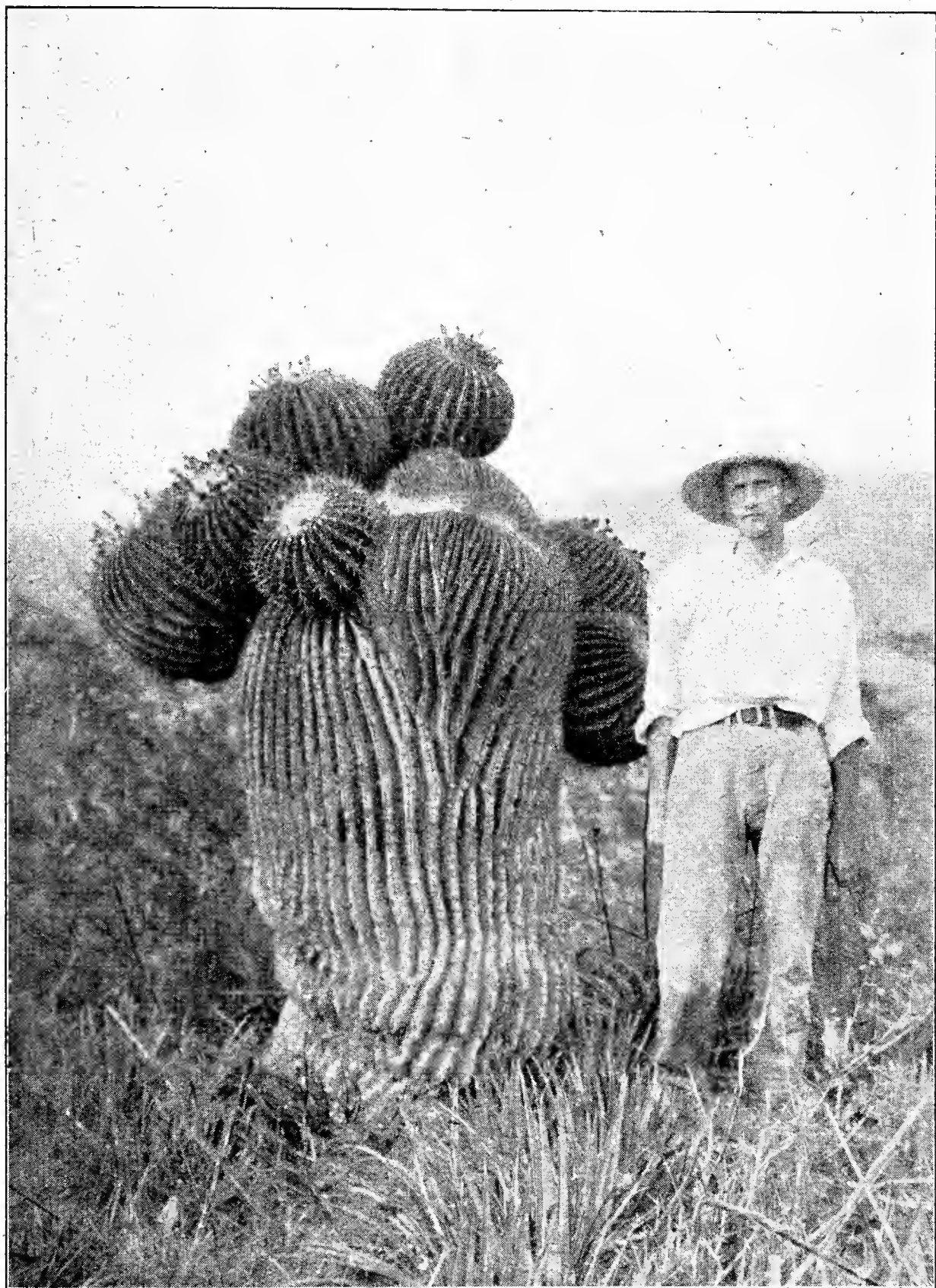


A photograph showing the difficulties of gathering seed. (Espes, dautwitzii growing in background.) Isolated plants like these and all *Cereus microspermuä* were to be reached only with the aid of a rope.

**HERMAN TOBUSCH**

**632 So. Wisconsin Ave Villa Park, Illinois**





**Echinocactus ingens**

